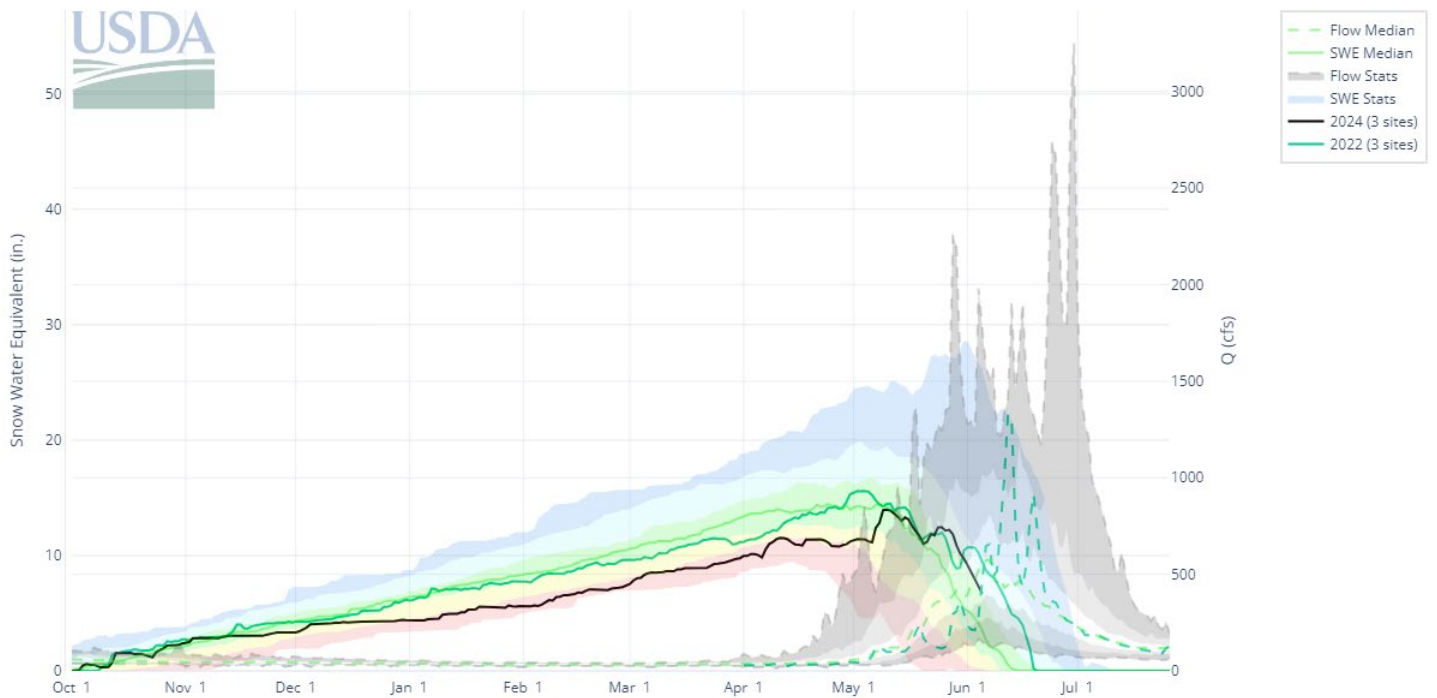


Wyoming Basin & Water Supply Outlook Report

June 1, 2024

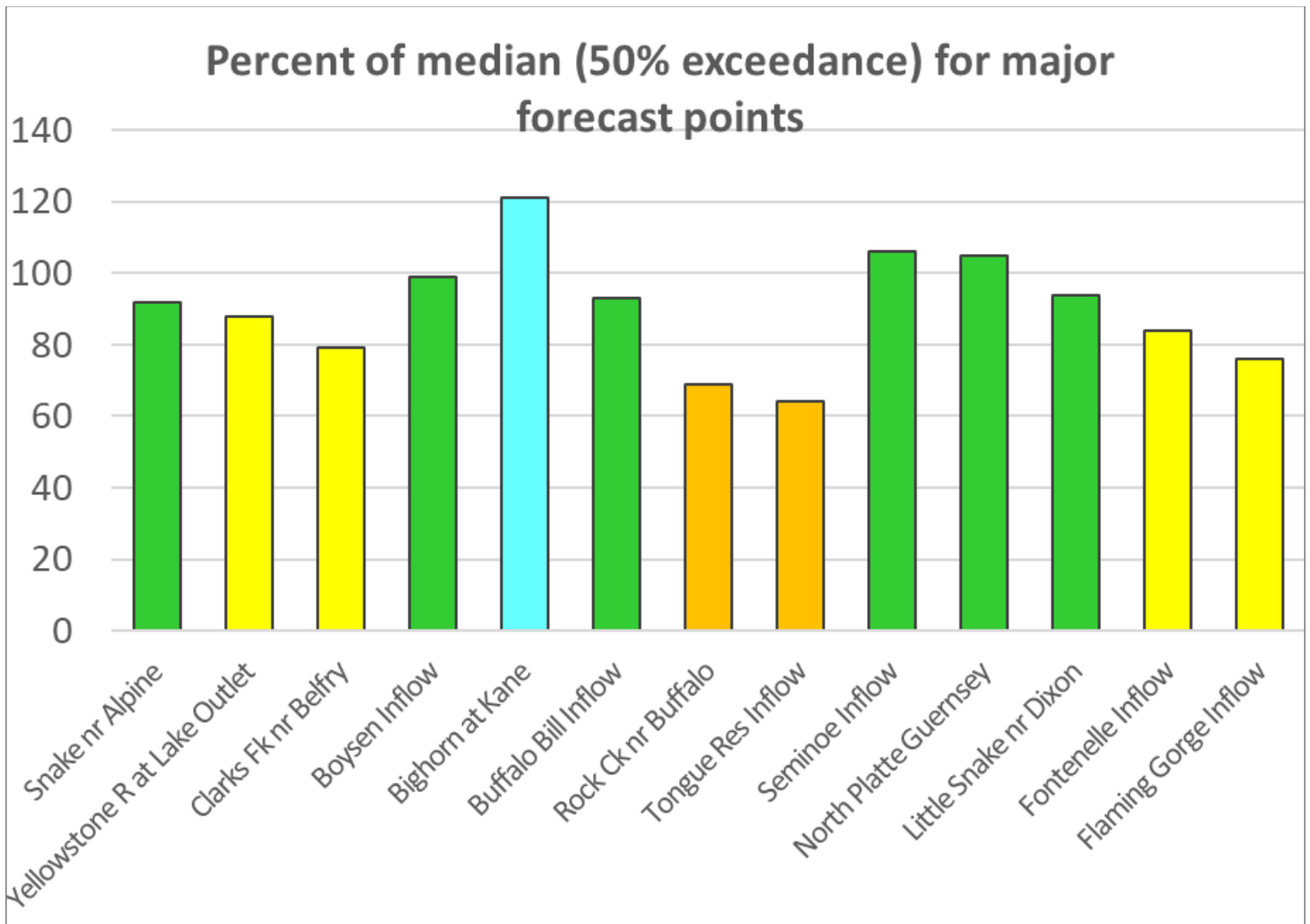
**Natural
Resources
Conservation
Service**

Shell Ck nr Shell Snow to Flow Plot



Shell Creek near Shell Creek SNOTEL site June 5th, 2024, National Water and Climate Center

Forecasted stream flows for June 1st, 2024



The highest fifty percent exceedance probability, Bighorn at Kane, is expected to be 121% of normal. Fifty percent exceedance probability for 6 out of 13 major forecast points above are expected to be near 100% of normal. Fifty percent exceedance probability for 6 major forecast points listed above are expected to be below 90% of normal.

Basin Outlook Reports

And

Federal - State - Private Cooperative Snow Surveys

For more information, contact:

Jeff Coyle
100 East "B" Street, Casper, WY 82601
(307) 233-6768 jeffrey.coyle@usda.gov

How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

Note: The median is the official normal for snowpack (SWE), precipitation, reservoir storage, and streamflow calculations. Please refer to the **Appendix** of this report for more detailed information.

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Wyoming Basin & Water Supply Outlook Report

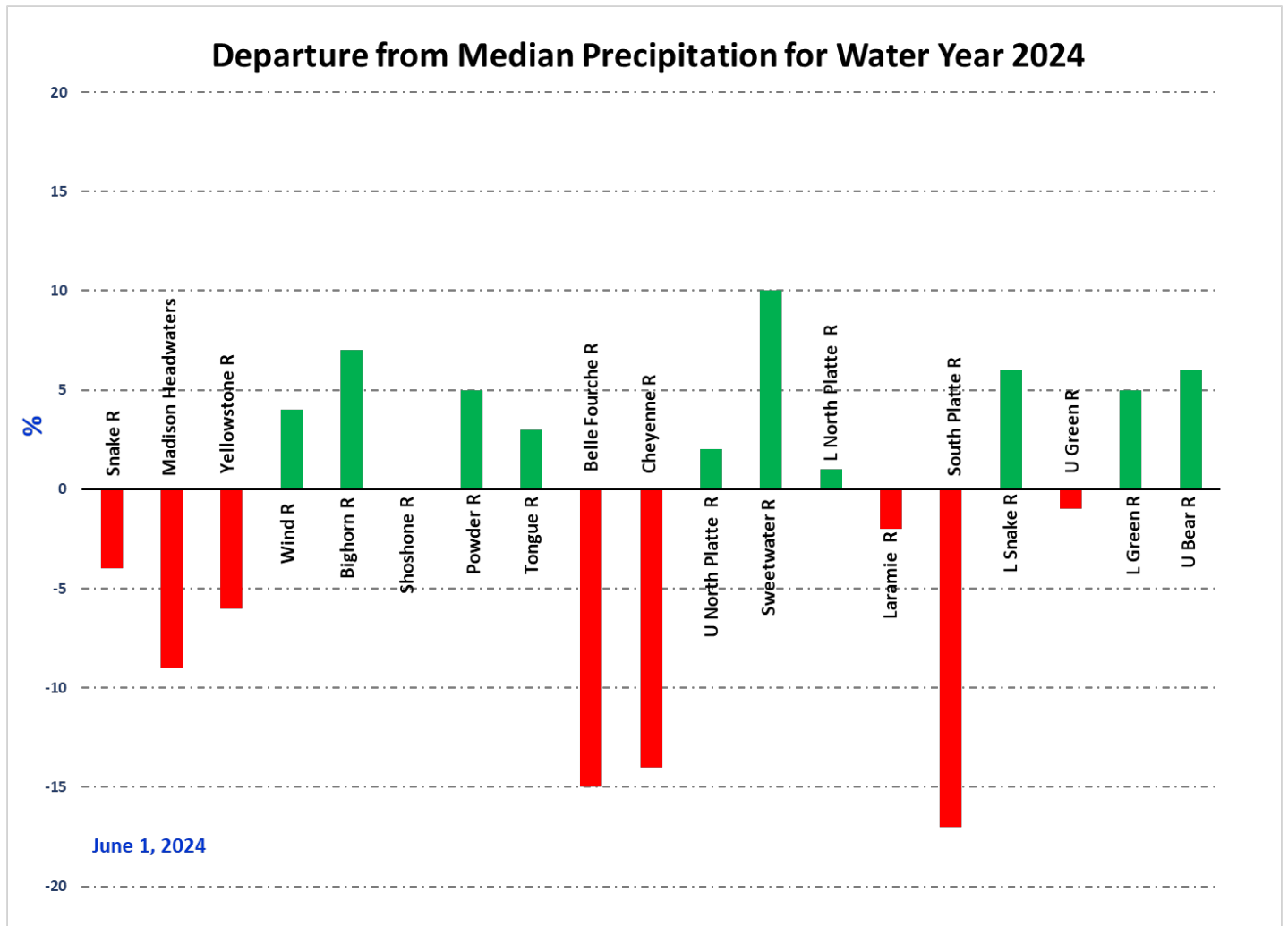
Snowpack

Snow water equivalent (SWE) across Wyoming for June 1st was at 132% of median. SWE in the Tongue River Basin was the highest at 380% of median and lowest for the Yellowstone River Basin at 91% of median. *See the map on page 6 and the Appendix for further information.*

Precipitation

The Wind River Basin had the highest precipitation for the month at 148% of median. The Upper North Platte River Basin had the lowest precipitation amount for the month at 19% of median. The following graph displays the precipitation in major river basins and their departure from median for the water year beginning October 1st, 2023.

See Appendix for further information.



Streams

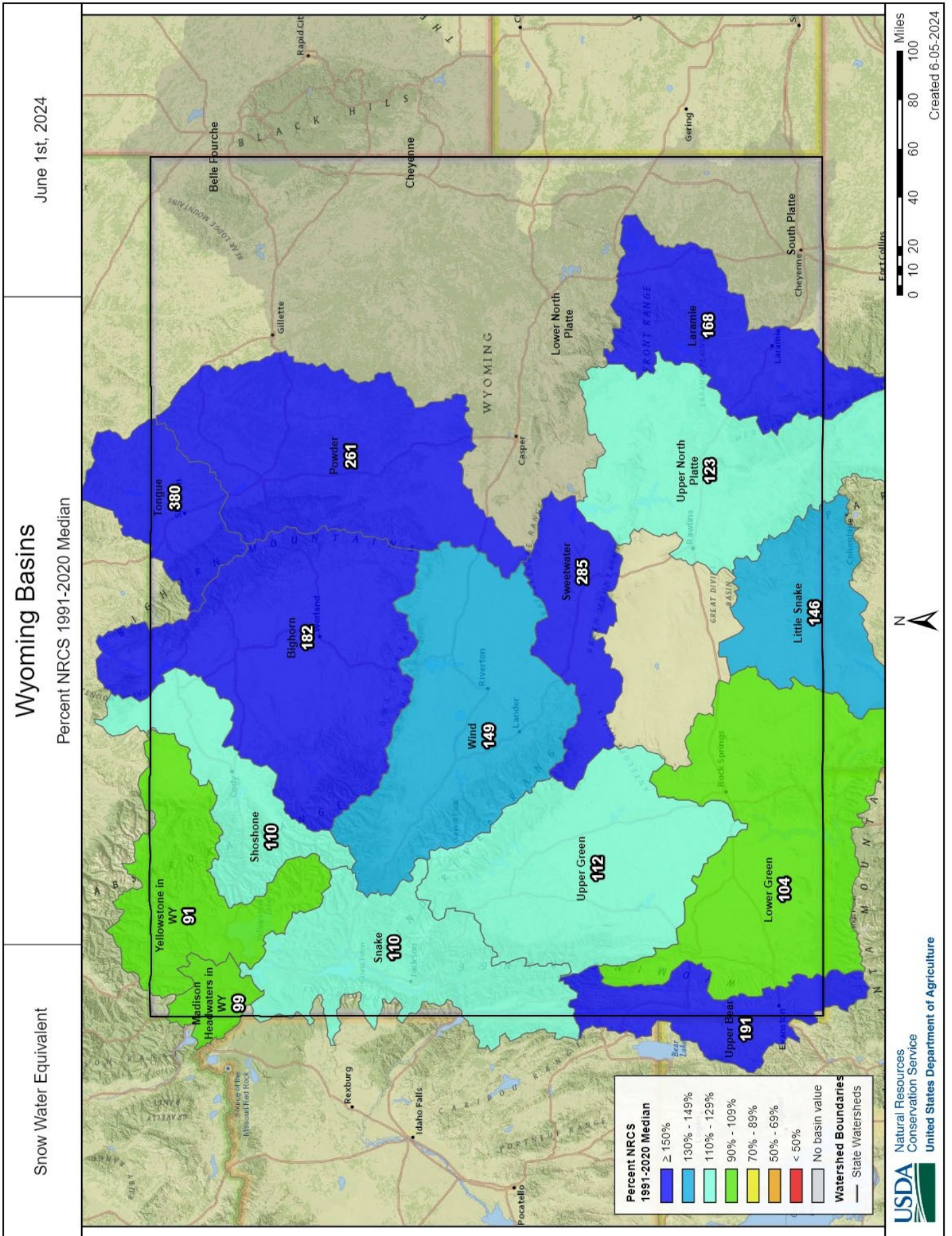
Forecast median streamflow yields for June thru September in Wyoming basins (except Green, Little Snake and Cheyenne) average 108%. Forecast median stream flow yields for June thru July in Green, Little Snake, and Cheyenne average 90%, 120%, and 55%. The Snake River and Yellowstone River in Wyoming, basins should yield about 95% median. Yields from the Wind and Bighorn River basins should be about 106% and 113% of median. Yields from the Shoshone River basin should be 96% of median. Yields from the Powder and Tongue River basins should be about 116% and 112% of median. Yield for the Cheyenne River basin should be about 55% of median. Yields for the Sweetwater, Upper North Platte, Lower North Platte, and Laramie Rivers of Wyoming should be about 115%, 117%, 125%, and 103% of median, respectively.

Reservoirs

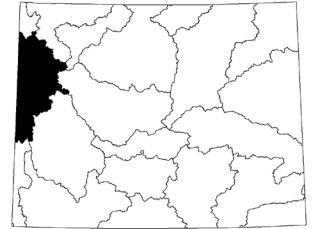
Reservoir storage was 101% of median across the entire state. Reservoirs in the Snake River basin are near median at 105%. Reservoirs in the Wind River basin are near median at 95%. Reservoirs on the Bighorn are 96% of median. The Buffalo Bill Reservoir on the Shoshone is near median at 107%. Reservoirs in the Belle Fourche and Cheyenne River basins are near median at 94% and 100% respectively. Reservoirs on the Upper and Lower North Platte River are above median at 112% and 87% respectively. Reservoirs on the Upper Green River are at 95% of median. Reservoirs on the Lower Green River are near median at 100%. *See below for further information.*

Wyoming Reservoir Levels

	Reservoir Storage Summary For the End of May 2024								
	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Alcova	180.5	181.2	180.2	184.3	98%	98%	98%	100%	101%
Angostura	112.2	87.2	111.7	122.1	92%	71%	91%	100%	78%
Belle Fourche	163.1	166.6	162.3	178.4	91%	93%	91%	100%	103%
Big Sandy	50.4	36.2	30.3	38.3	132%	94%	79%	166%	119%
Bighorn Lake	828.6	844.2	862.1	1356.0	61%	62%	64%	96%	98%
Boysen	489.0	569.6	509.6	596.0	82%	96%	86%	96%	112%
Buffalo Bill	481.0	521.4	447.7	646.6	74%	81%	69%	107%	116%
Bull Lake	92.1	106.4	95.7	151.8	61%	70%	63%	96%	111%
Deerfield	15.3	15.2	15.3	15.2	101%	100%	101%	100%	99%
Flaming Gorge Res	3136.4	2917.4	3144.0	3749.0	84%	78%	84%	100%	93%
Fontenelle	156.6	249.9	188.1	344.8	45%	72%	55%	83%	133%
Glendo	393.7	450.4	482.7	506.4	78%	89%	95%	82%	93%
Grassy Lake	14.6	14.7	15.1	15.2	96%	97%	99%	97%	98%
Guemsey	27.5	28.2	30.9	45.6	60%	62%	68%	89%	91%
High Savery Res	22.5	NA	21.3	22.4	100%	NA	95%	106%	NA
Jackson Lake	783.0	532.8	741.6	847.0	92%	63%	88%	106%	72%
Keyhole	132.9	131.5	153.3	193.8	69%	68%	79%	87%	86%
Meeks Cabin Res	26.6	29.9	27.0	32.5	82%	92%	83%	99%	111%
Pactola	55.0	55.2	55.7	55.0	100%	100%	101%	99%	99%
Pathfinder	814.8	547.7	637.5	1016.5	80%	54%	63%	128%	86%
Pilot Butte	19.4	25.0	24.0	31.6	61%	79%	76%	81%	104%
Seminole	688.1	724.9	709.1	1016.7	68%	71%	70%	97%	102%
Stateline Res	13.8	14.2	11.1	12.0	115%	118%	93%	124%	128%
Tongue River Res	NA	81.5	78.6	79.1	NA	103%	99%	NA	104%
Viva Naughton Res	40.5	36.1	42.2	42.4	96%	85%	100%	96%	86%
Wheatland #2	67.8	NA	60.2	98.9	69%	NA	61%	113%	NA
Woodruff Creek	4.0	4.0	4.0	4.0	100%	101%	100%	100%	101%
Woodruff Narrows Res	62.4	63.4	49.8	57.3	109%	111%	87%	125%	127%



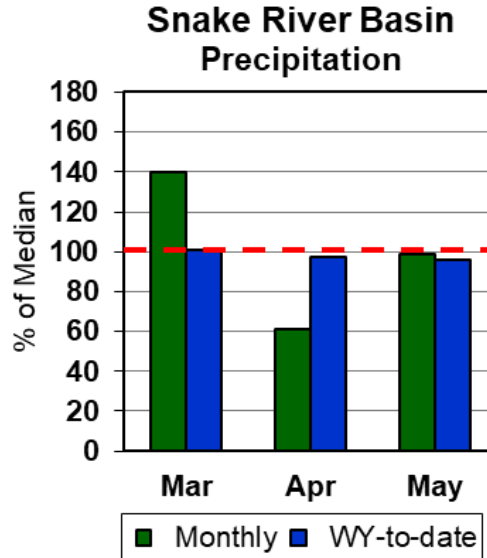
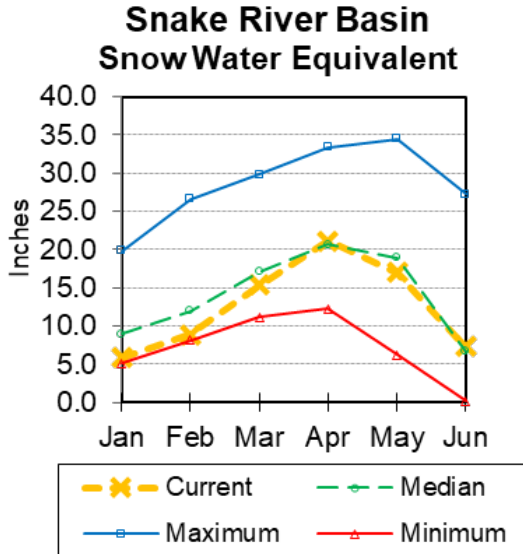
Snake River Basin



Snow

The overall Snake River basin SWE (portion above Palisades dam) is 110% of median. SWE in the Snake River Basin above Jackson Lake is 101% of median. Pacific Creek basin SWE is 100% of median. Buffalo Fork SWE is 81% of median. Gros Ventre River basin SWE is 74% of median. SWE in the Hoback River drainage is 132% of median. SWE in the Greys River drainage is 139% of median. Salt River Basin SWE is 175% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Last month's precipitation for the Snake River Basin was 99% of median. Water-year-to-date precipitation is 96% of median.

Reservoirs

Current reservoir storage is 105% of median for the two storage reservoirs in the basin.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Grassy Lake	14.6	14.7	15.1	15.2	96%	97%	99%	97%	98%
Jackson Lake	783.0	532.8	741.6	847.0	92%	63%	88%	106%	72%
Basin Index					93%	64%	88%	105%	72%
# of reservoirs					2	2	2	2	2

Streamflow

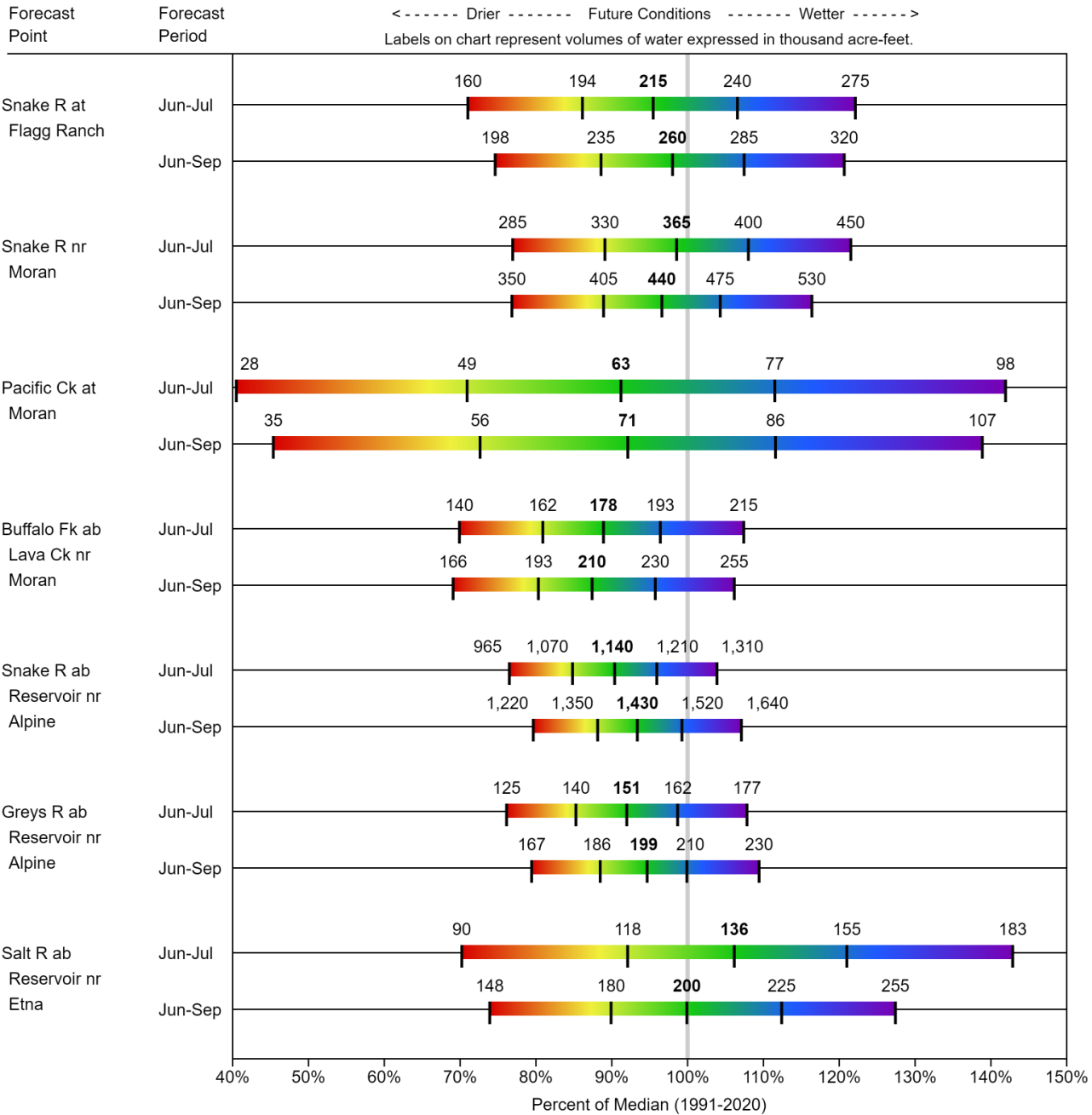
The 50% exceedance forecasts for June through September are near median for this basin. The Snake near Moran yield should be 97% of median. Snake River above reservoir near Alpine will yield about 93%. Pacific Creek near Moran yield will be around 92%. Buffalo Fork above Lava near Moran will be around 88% of median. Greys River above reservoir near Alpine should yield about 95%. Salt River near Etna yield will be about 100%. *See the following graph for further information.*

SNAKE

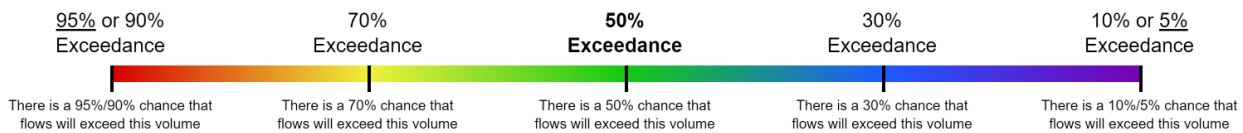
Water Supply Forecasts

June 1, 2024

Forecast Exceedance Probabilities



.legend



When selected, the following historic streamflow values and statistics will be shown.

Period of Record Minimum
Streamflow KAF (Year)

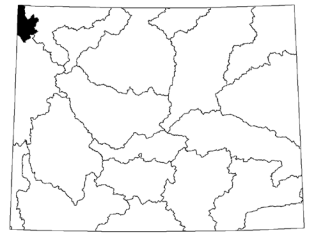
1991-2020 Normal
Streamflow KAF

Observed Streamflow KAF

Period of Record Maximum
Streamflow KAF (Year)

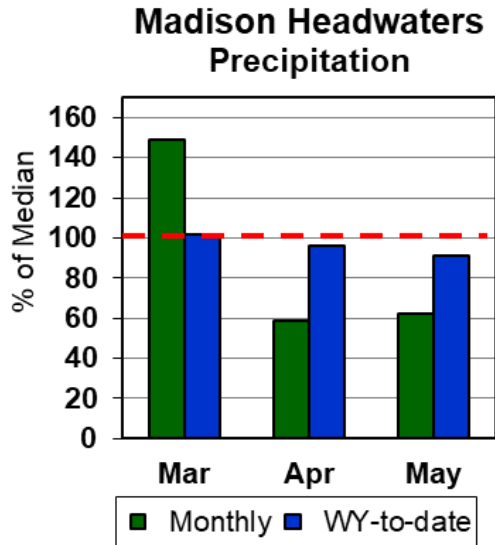
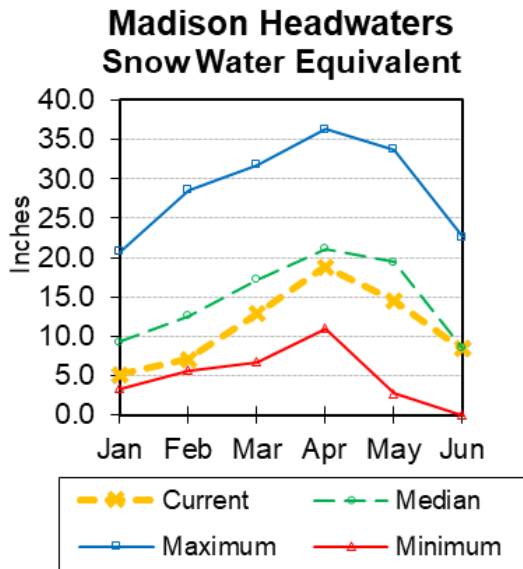
Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

Madison Headwaters in Wyoming



Snow

SWE is 99% of median in the Madison Headwaters in Wyoming drainage. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month precipitation in the Madison Headwaters drainage was 62% of median. Water-year-to-date precipitation is at 91% of median.

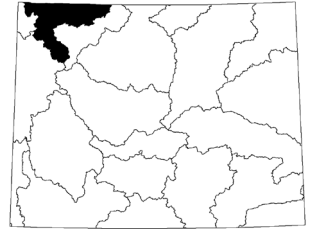
Reservoirs

No reservoir data.

Streamflow

There are no streamflow forecast points for the basin.

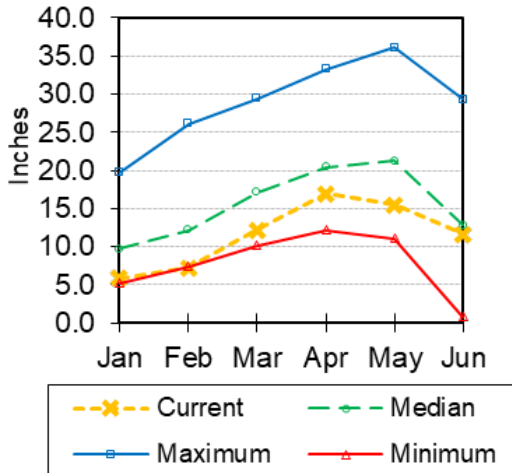
Yellowstone River Basin



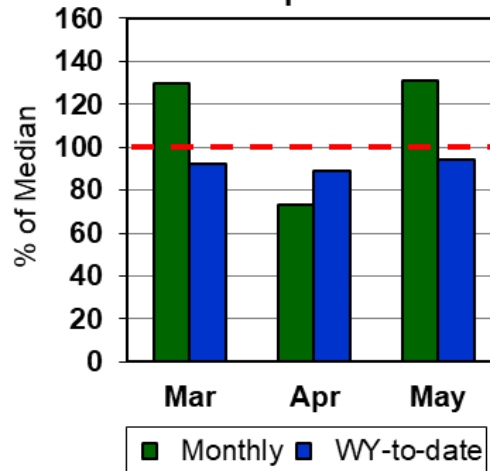
Snow

SWE in the Yellowstone River Basin is 91% of median. SWE in the Clarks Fork Drainage of the Yellowstone River basin in Wyoming is 91% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*

**Yellowstone River Basin
Snow Water Equivalent**



**Yellowstone River Basin
Precipitation**



Precipitation

Last month's precipitation in the Yellowstone River Basin was 131% of median. Water-year-to-date precipitation is 94% of median.

Reservoirs

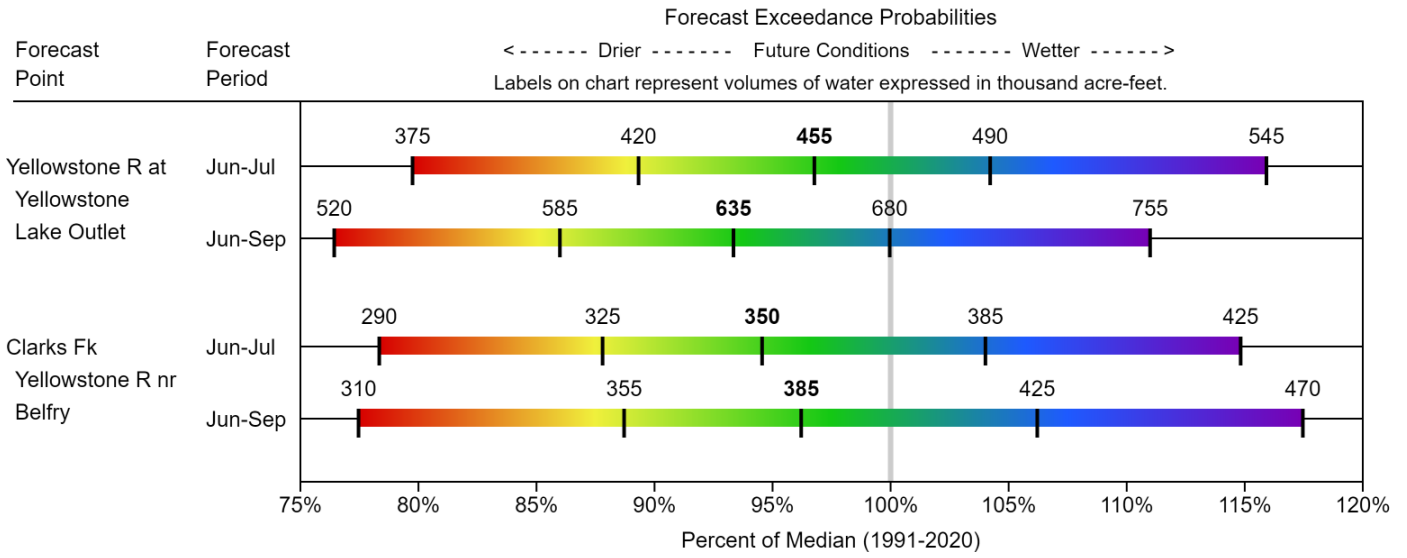
No reservoir data.

Streamflow

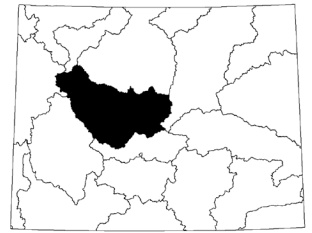
The 50% exceedance forecasts for June through September are near median for the basin. Yellowstone at Lake Outlet will yield around 93% of median. Clarks Fork of the Yellowstone near Belfry will yield around 96%.

See the following graph for detailed information.

YELLOWSTONE IN WY
Water Supply Forecasts
June 1, 2024

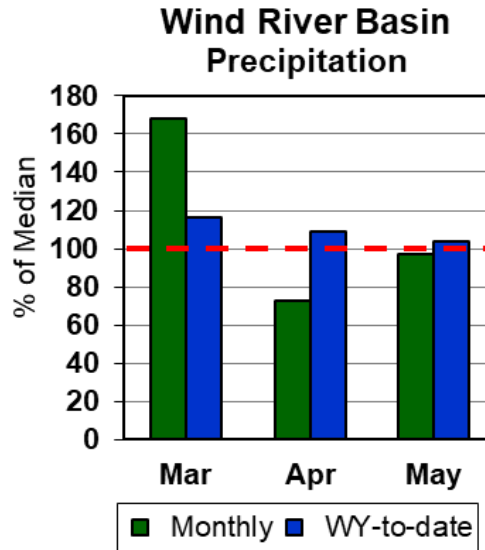
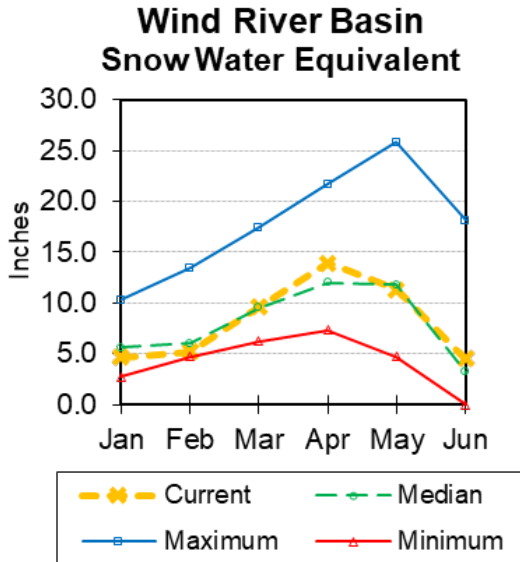


Wind River Basin



Snow

Wind River basin SWE (above Boysen Reservoir) is 149% of median. SWE in the Wind River above Dubois is 81% of median. Little Wind SWE is 281% of median, and Popo Agie drainage SWE is 283% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation for the basin was 97% of median. Water year-to-date precipitation is 104% of median.

Reservoirs

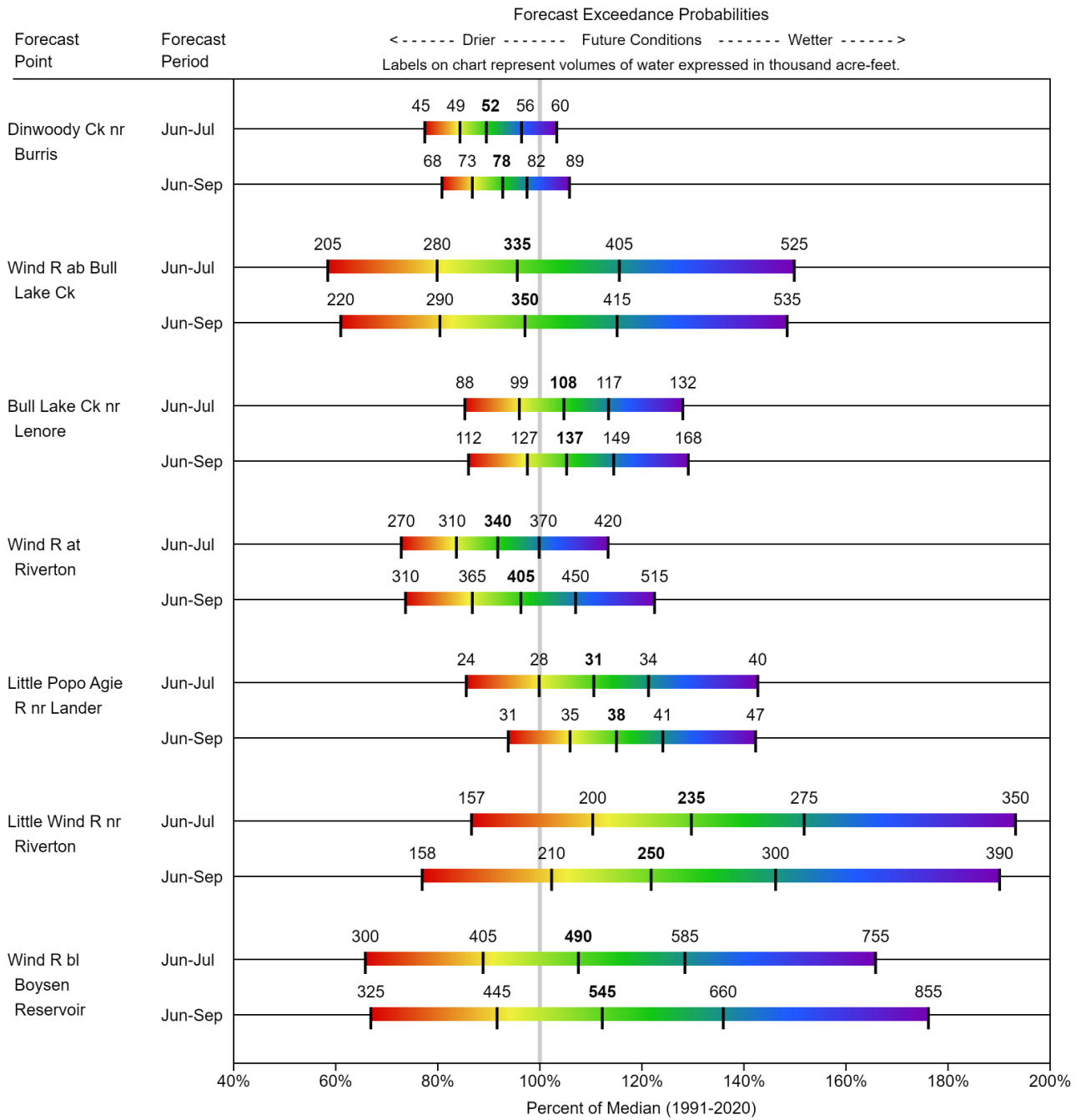
Current storage is 95% of median in the basin.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Pilot Butte	19.4	25.0	24.0	31.6	61%	79%	76%	81%	104%
Boysen	489.0	569.6	509.6	596.0	82%	96%	86%	96%	112%
Bull Lake	92.1	106.4	95.7	151.8	61%	70%	63%	96%	111%
Basin Index					77%	90%	81%	95%	111%
# of reservoirs					3	3	3	3	3

Streamflow

The 50% exceedance forecasts for the June through September runoff period are above normal for the Wind River. The Wind River above Bull Lake Creek will yield about 97% of median. Little Popo Agie River near Lander should yield around 115% of median. Little Wind River near Riverton will yield around 122% of median. Boysen Reservoir inflow will yield about 112% of median. *See the following graph for detailed runoff volumes.*

WIND
Water Supply Forecasts
June 1, 2024

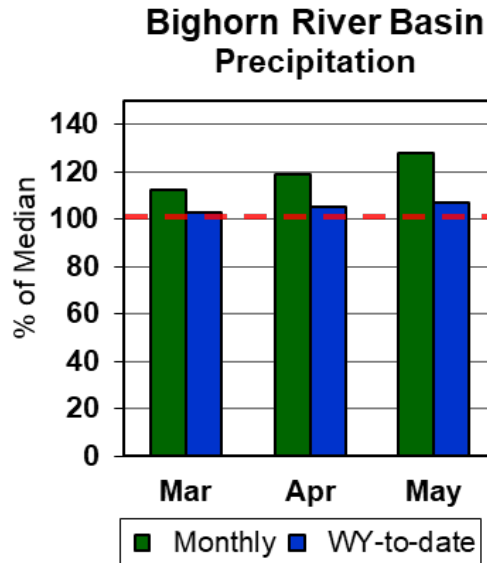
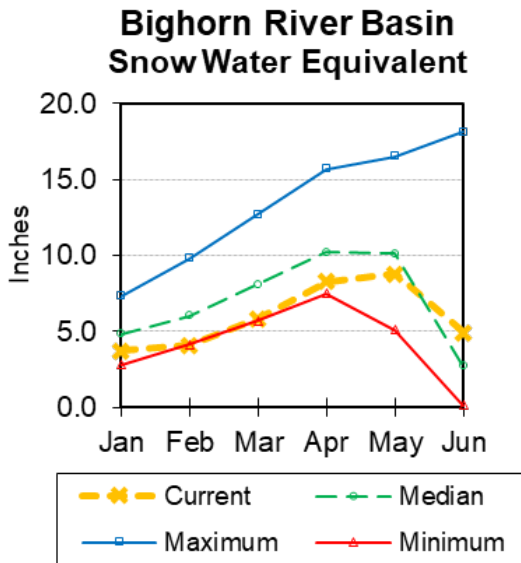


Bighorn River Basin



Snow

The Bighorn River Basin SWE (above Bighorn Reservoir) is 182% of median. Shell Creek SWE is at 150% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 128% of median. Year-to-date precipitation is 107% of median.

Reservoirs

Current reservoir storage in the basin is 96% of median.

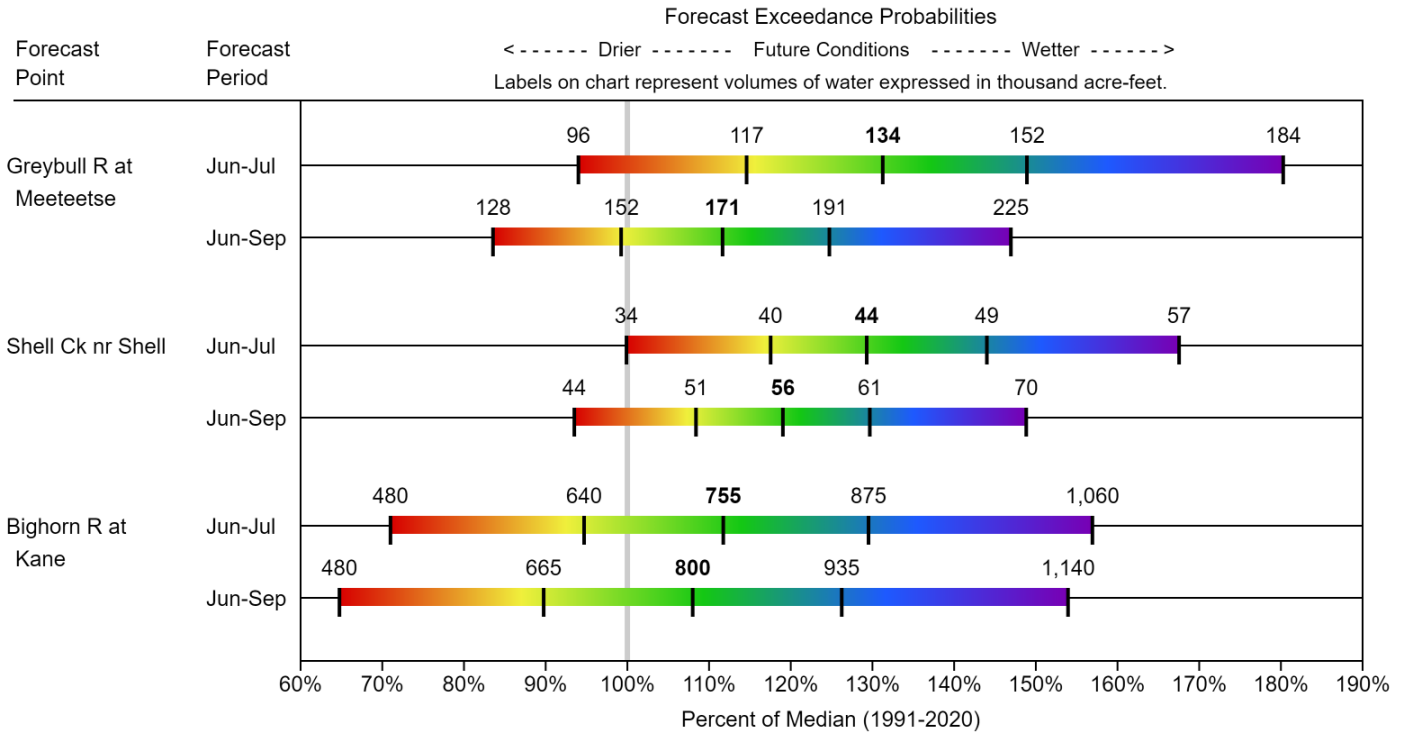
	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Bighorn Lake	828.6	844.2	862.1	1356.0	61%	62%	64%	96%	98%
Basin Index					61%	62%	64%	96%	98%
# of reservoirs					1	1	1	1	1

Streamflow

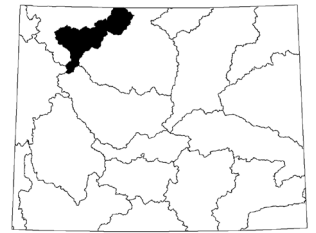
The 50% exceedance forecasts for the June through September runoffs are above normal. The Greybull River near Meeteetse should yield 112% of median. Shell Creek near Shell should yield around 119% of median. The Bighorn River at Kane should yield around 108% of median.

See the following graph for detailed runoff volumes.

BIGHORN
Water Supply Forecasts
June 1, 2024

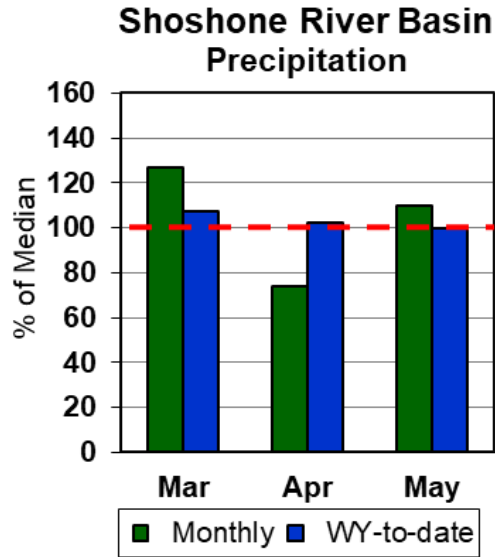
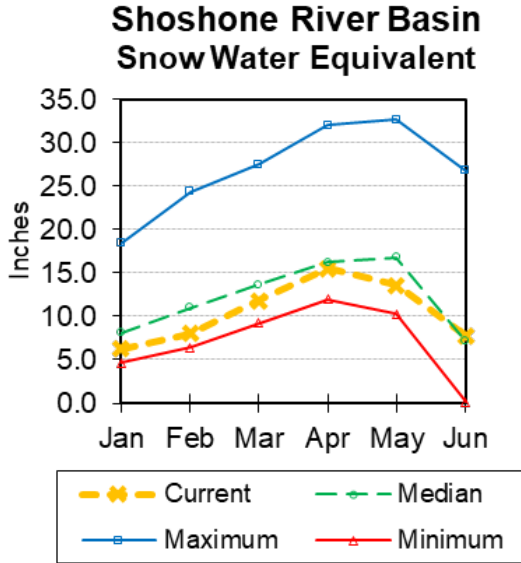


Shoshone River Basin



Snow

Snow Water Equivalent (SWE) is 110% of median in this basin. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 110% of median. The basin year-to-date precipitation is now 100% of median.

Reservoirs

Current storage in Buffalo Bill Reservoir is about 107% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Buffalo Bill	481.0	521.4	447.7	646.6	74%	81%	69%	107%	116%
Basin Index					74%	81%	69%	107%	116%
# of reservoirs					1	1	1	1	1

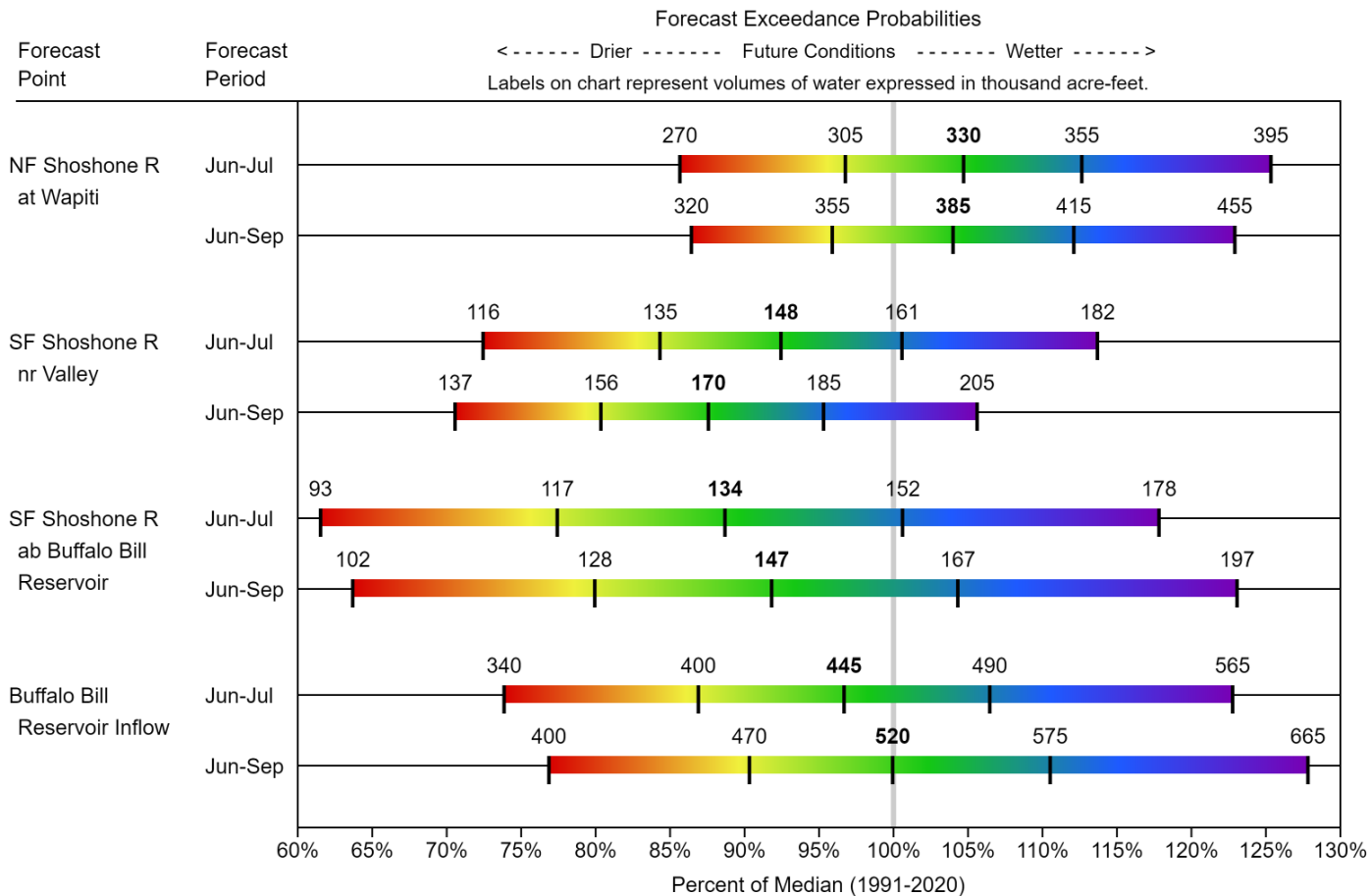
Streamflow

The 50% exceedance forecasts for the June through September period are near normal for the basin. The North Fork Shoshone River at Wapiti should yield 104% of median. The South Fork of the Shoshone River near Valley should yield 88% of median. The Buffalo Bill Reservoir inflow should yield 100% of median. *See the following graph for detailed runoff volumes.*

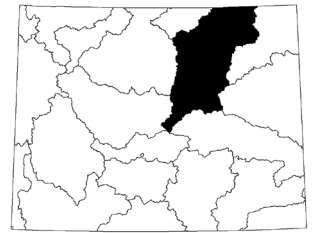
SHOSHONE

Water Supply Forecasts

June 1, 2024

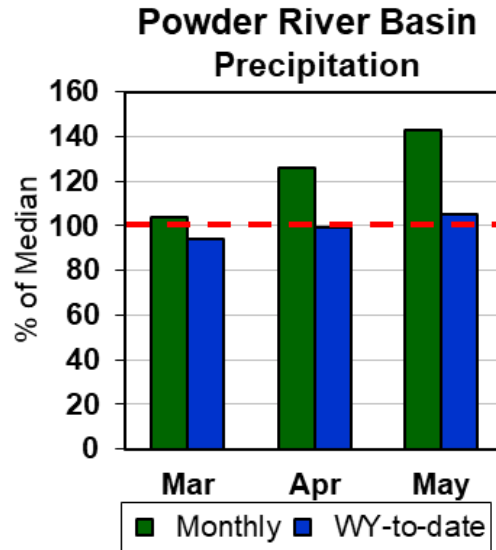
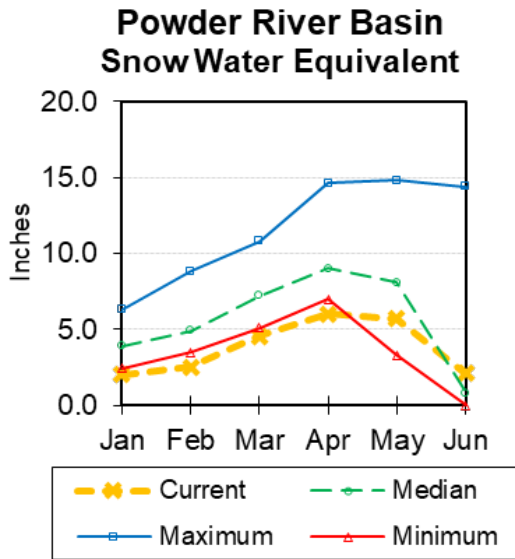


Powder River Basin



Snow

Powder River Basin SWE is at 261% of median. SWE in the Clear Creek drainage is 237% of median. *See appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 143% of median in the basin. Year-to-date precipitation is 105% of median.

Reservoirs

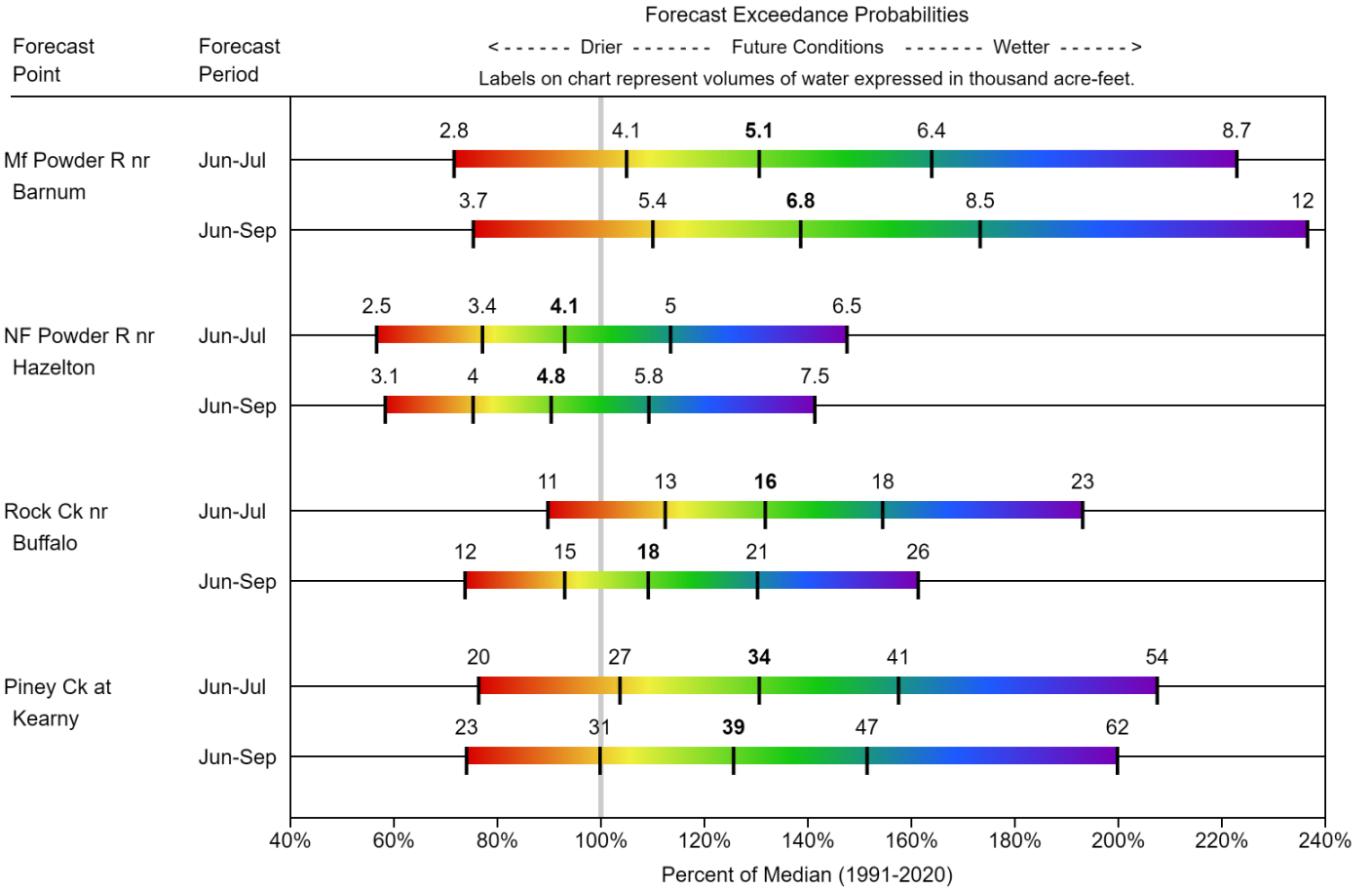
No reservoir data for this basin.

Streamflow

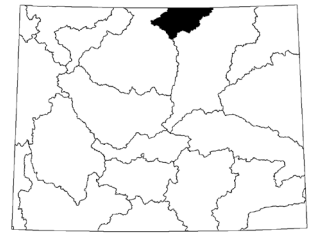
The 50% exceedance forecasts for the June through September period are above normal for the basin. The Middle Fork of the Powder River near Barnum should yield around 139% of median. The North Fork of the Powder River near Hazelton to yield around 91% of median.

See the following graph for detailed runoff volumes.

POWDER
Water Supply Forecasts
June 1, 2024

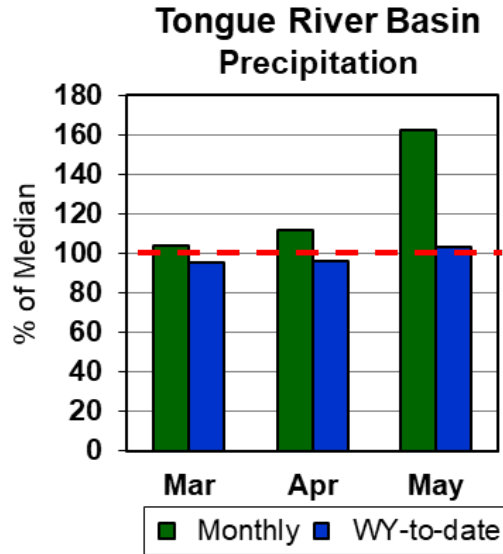
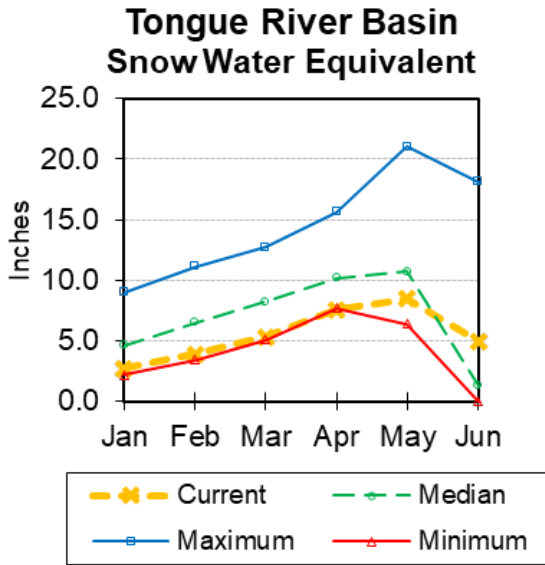


Tongue River Basin



Snow

Upper Tongue River drainage SWE is at 380% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 162% of median. Year-to-date precipitation is 103% of median in the basin.

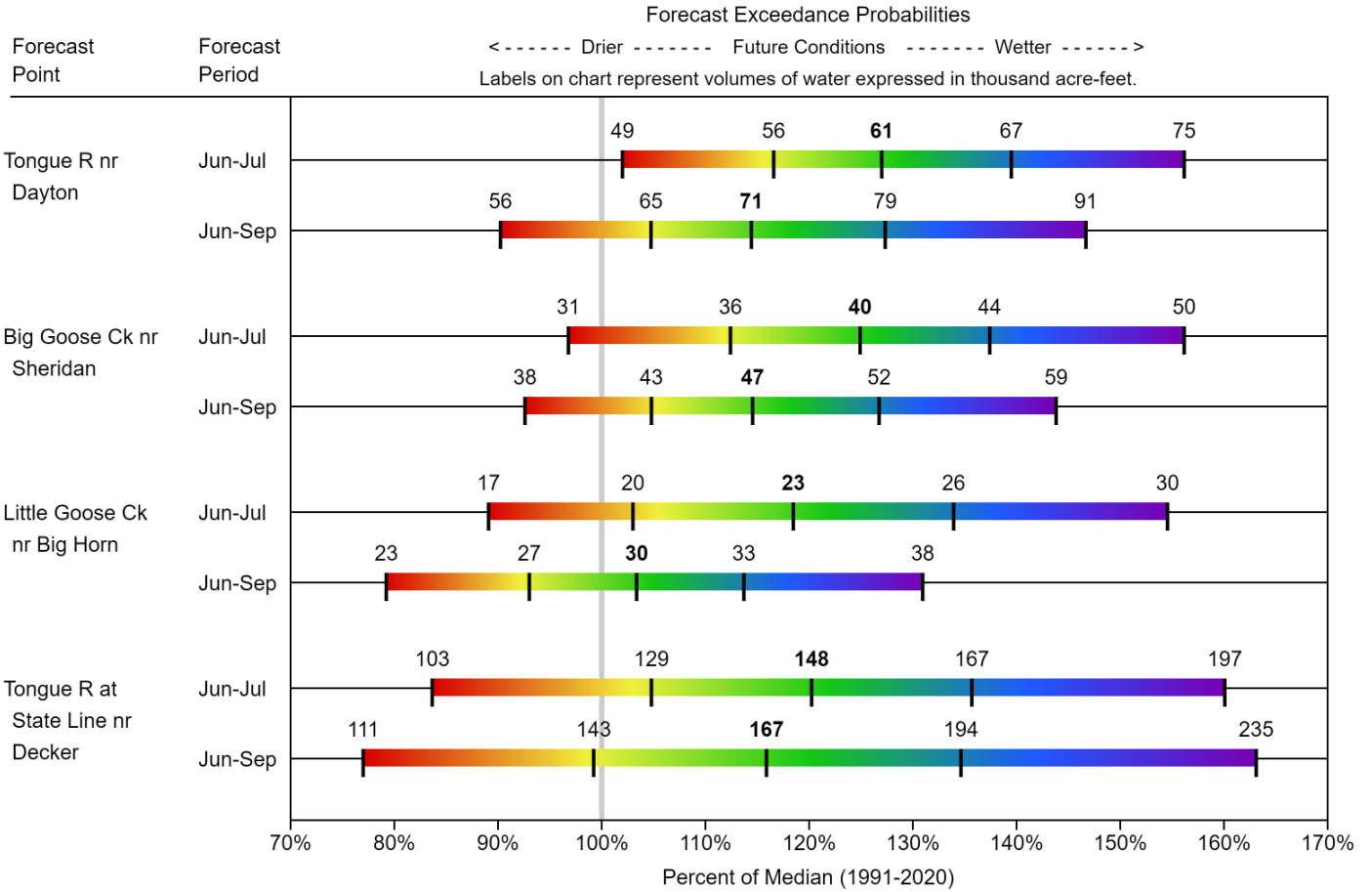
Reservoirs

No reservoir data for the basin.

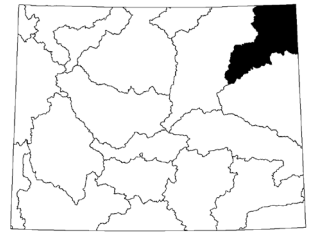
Streamflow

The 50% exceedance forecasts for the June through September period are above normal for the basin. The yield for Tongue River near Dayton is forecasted to be 115% of median. Big Goose Creek near Sheridan should yield around 115%. Little Goose Creek near Bighorn should yield 103% of median. The Tongue River Reservoir Inflow should yield 116% of median. *See below for detailed runoff volumes.*

TONGUE
Water Supply Forecasts
June 1, 2024

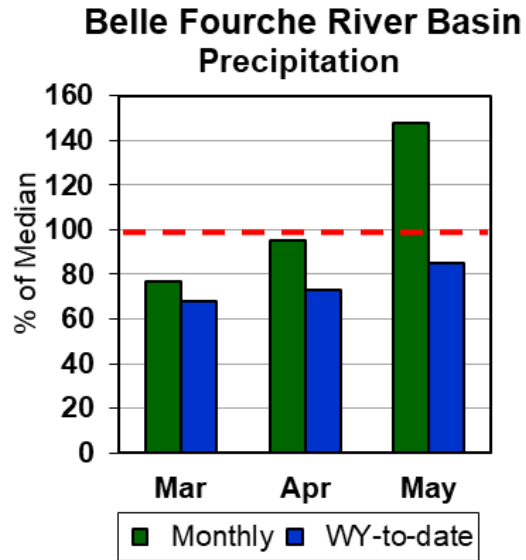
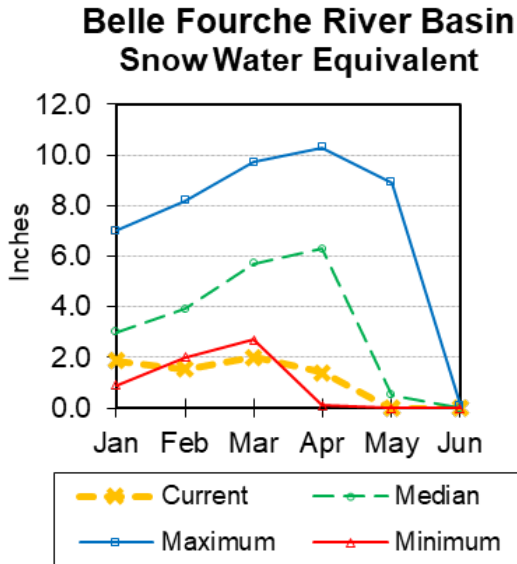


Belle Fourche River Basin



Snow

Currently the Belle Fourche River Basin SWE is 0. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 148% of median in the Belle Fourche basin. Year-to-date precipitation is 85% of median.

Reservoirs

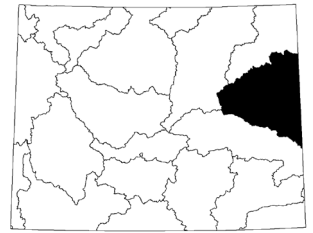
Combined storage for the 2 reservoirs in the basin is at 94% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Belle Fourche	163.1	166.6	162.3	178.4	91%	93%	91%	100%	103%
Keyhole	132.9	131.5	153.3	193.8	69%	68%	79%	87%	86%
Basin Index					80%	80%	85%	94%	94%
# of reservoirs					2	2	2	2	2

Streamflow

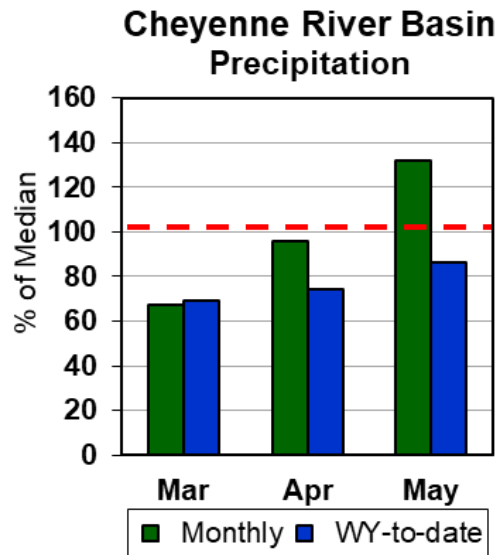
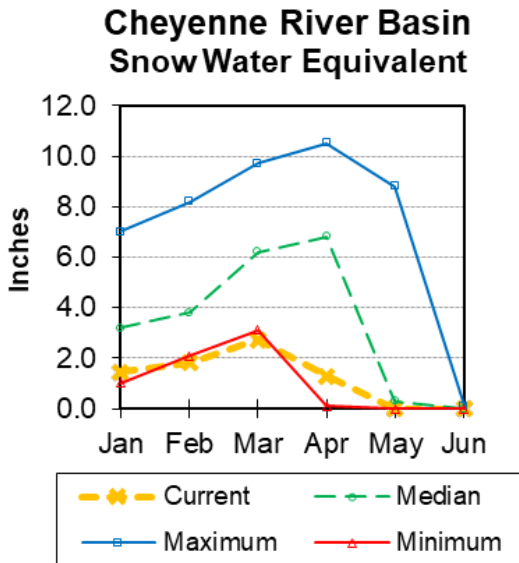
There are no streamflow forecast points for the basin.

Cheyenne River Basin



Snow

Currently SWE for sites in the Cheyenne River Basin is 0. *See Appendix at the end of this report for a detailed listing.*



Precipitation

Precipitation for last month was 132% of median. Year-to-date precipitation is 86% of median.

Reservoirs

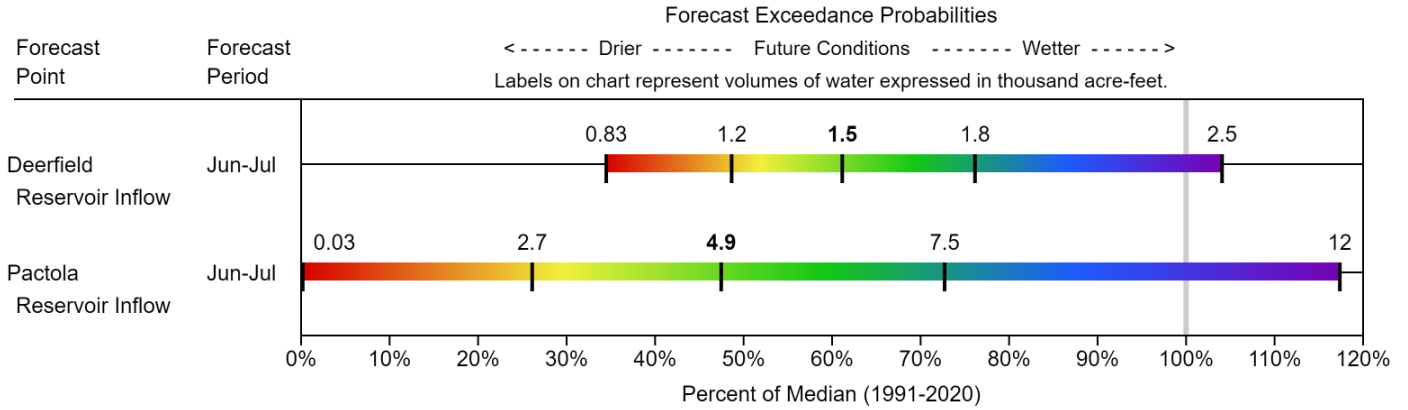
Combined storage for the 3 reservoirs in the basin is at 100% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Deerfield	15.3	15.2	15.3	15.2	101%	100%	101%	100%	99%
Pactola	55.0	55.2	55.7	55.0	100%	100%	101%	99%	99%
Angostura	112.2	87.2	111.7	122.1	92%	71%	91%	100%	78%
Basin Index					95%	82%	95%	100%	86%
# of reservoirs					3	3	3	3	3

Streamflow

The 50% exceedance forecasts for the June through July period are below normal. The Deerfield Reservoir Inflow yield is forecasted at 61% of median. Pactola Reservoir Inflow yield should be 48% of median. *See the following graph for detailed runoff volumes.*

CHEYENNE
Water Supply Forecasts
June 1, 2024



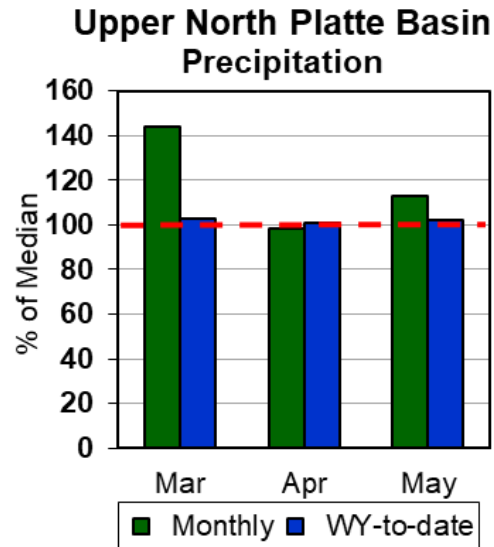
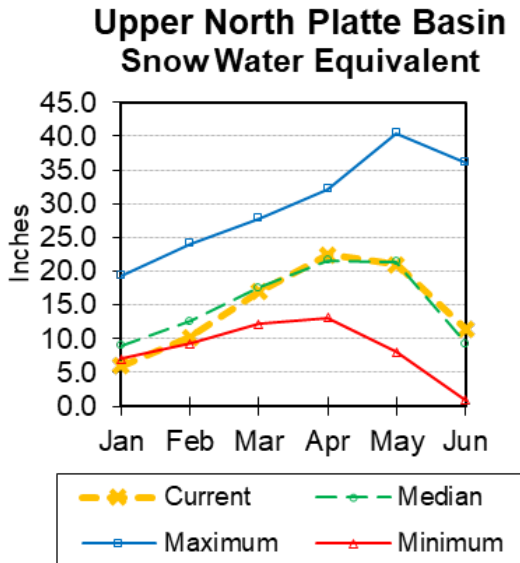
Upper North Platte River Basin



Snow

The Upper North Platte River basin SWE is 123% of median. North Platte above Northgate SWE is 120% of median. Encampment River SWE is 127% of median. Medicine Bow and Rock Creek SWE are 125% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Last month's precipitation was 113% of median. Total water-year-to-date precipitation is 102% of median.

Reservoirs

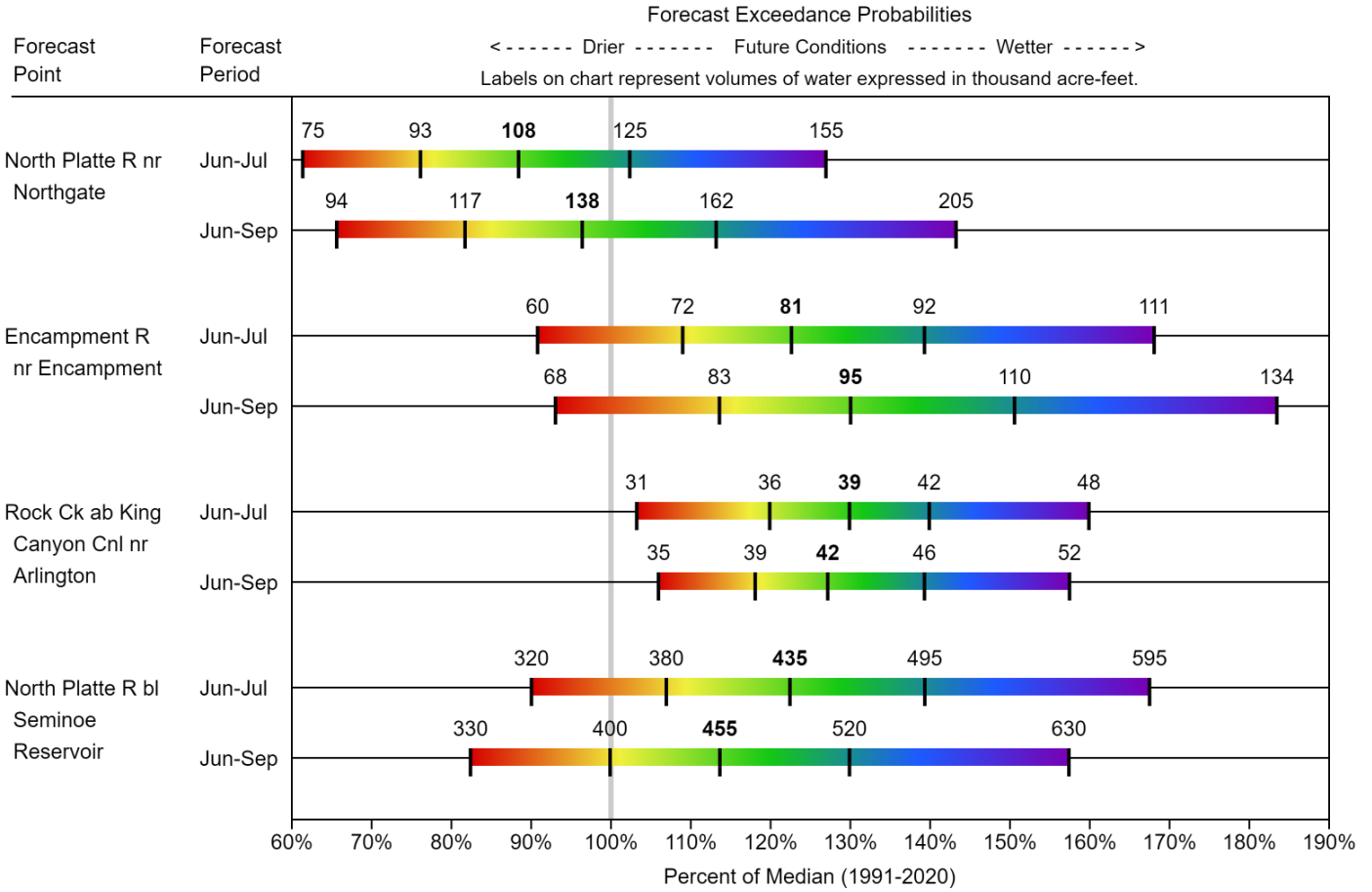
Combined storage for reservoirs in the Upper North Platte River Basin is at 112% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Seminole	688.1	724.9	709.1	1016.7	68%	71%	70%	97%	102%
Pathfinder	814.8	547.7	637.5	1016.5	80%	54%	63%	128%	86%
Basin Index					74%	63%	66%	112%	95%
# of reservoirs					2	2	2	2	2

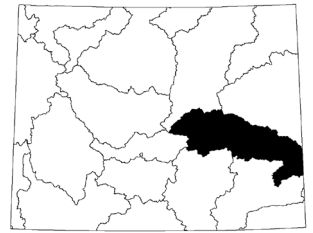
Streamflow

The 50% exceedance forecasts for the June through September period are above normal for the Upper North Platte River Basin. The yield for the North Platte River near Northgate will be around 97% of median. The Encampment River near Encampment yield will be about 130%. Rock Creek near Arlington yield will be around 127%. Seminoe Reservoir inflow should be about 114% of median. *See the following page for more detailed information on projected runoff*

UPPER NORTH PLATTE Water Supply Forecasts June 1, 2024

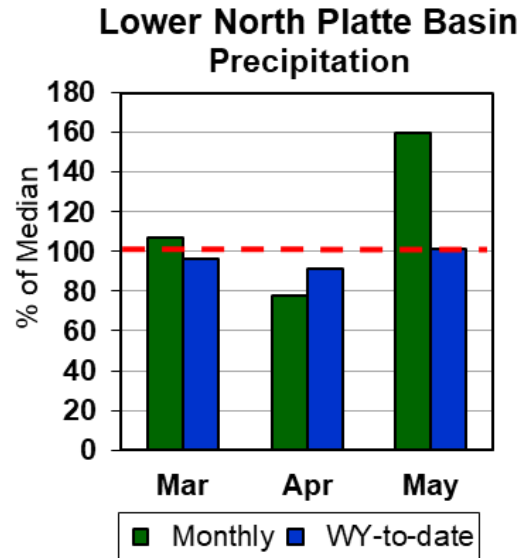
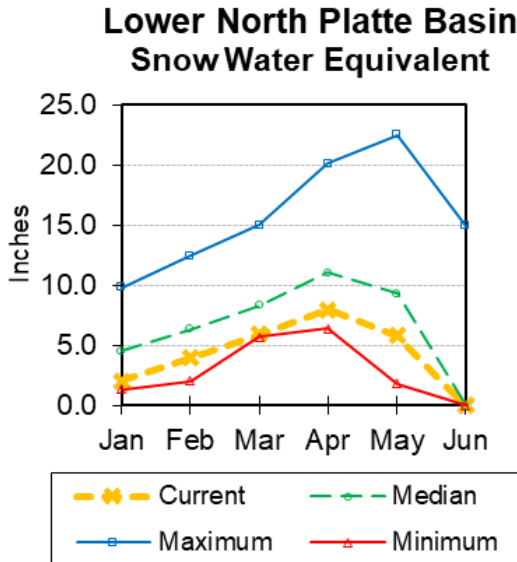


Lower North Platte River Basin



Snow

Currently, SWE in the Lower North Platte River Basin is 0. See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Last month’s precipitation was 160% of median. The water year-to-date precipitation for the basin is currently 101% of median.

Reservoirs

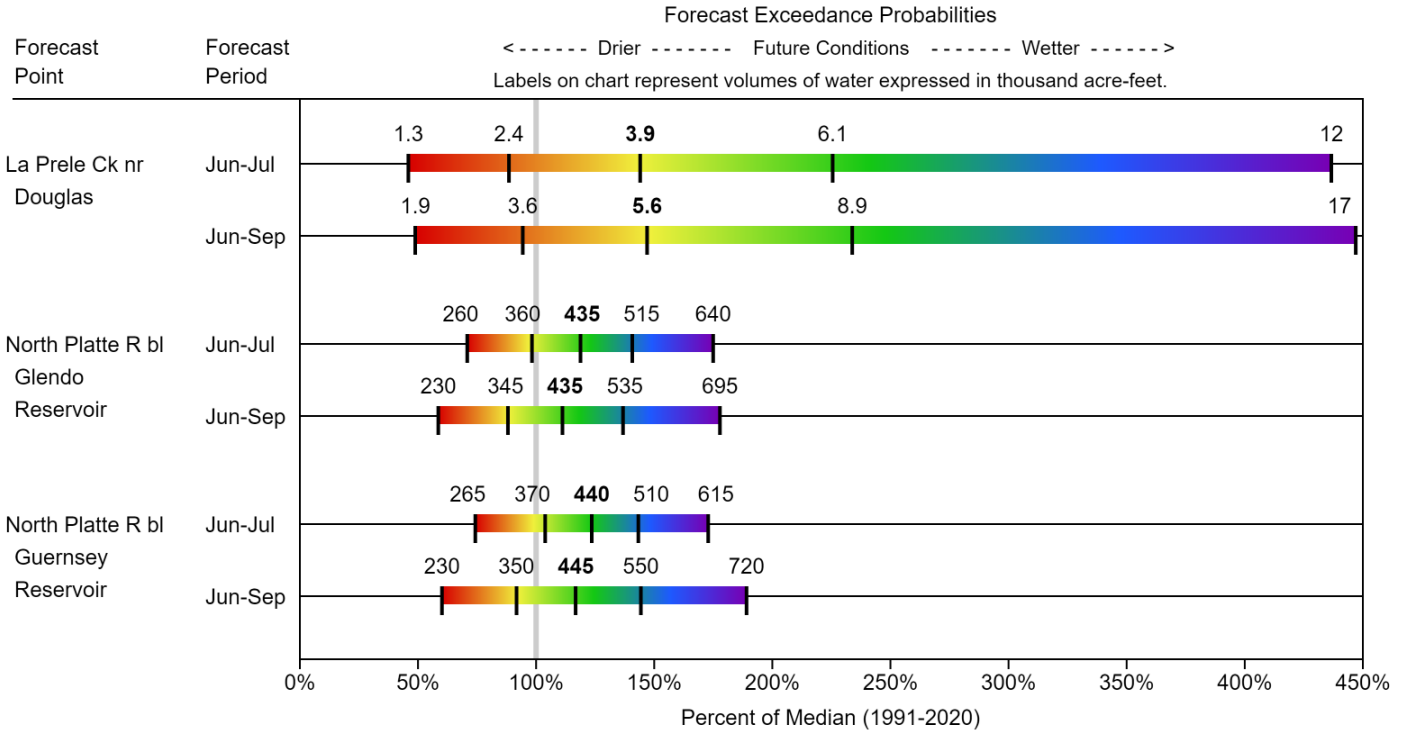
Combined storage for the 3 reservoirs in the basin is at 87% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Guernsey	27.5	28.2	30.9	45.6	60%	62%	68%	89%	91%
Glendo	393.7	450.4	482.7	506.4	78%	89%	95%	82%	93%
Alcova	180.5	181.2	180.2	184.3	98%	98%	98%	100%	101%
Basin Index					82%	90%	94%	87%	95%
# of reservoirs					3	3	3	3	3

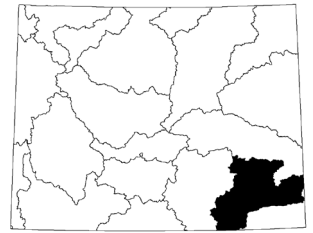
Streamflow

The 50% exceedance forecasts for the June through September period are above normal. LaPrele Creek near Douglas is forecasted to yield 147% of median. North Platte River below Guernsey Reservoir should yield around 117% of median. See the following for more detailed information on projected runoff.

LOWER NORTH PLATTE
Water Supply Forecasts
June 1, 2024

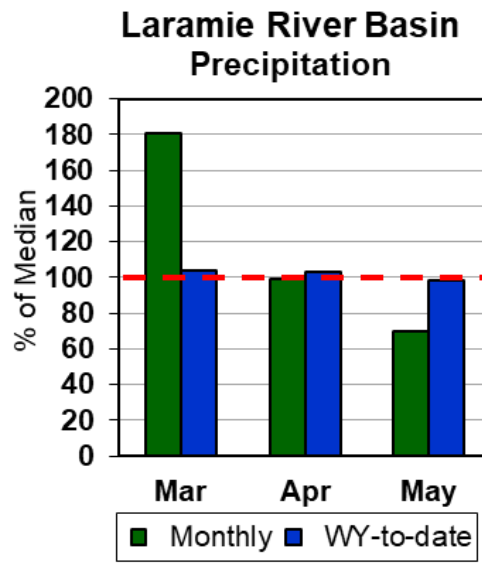
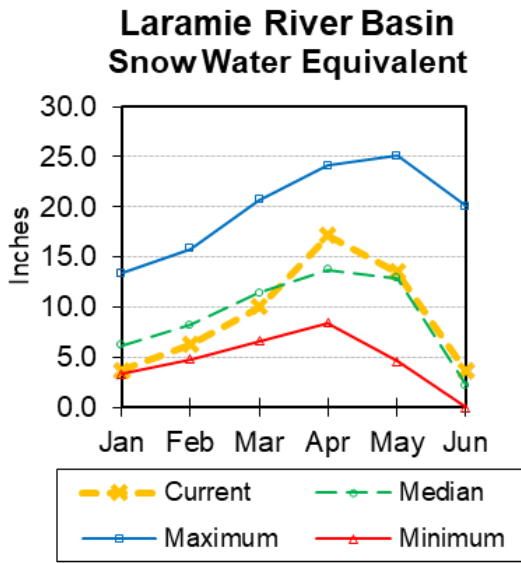


Laramie River Basin



Snow

SWE for the entire Laramie River Basin (above mouth entering North Platte) is 168% of median. SWE for the Laramie River above Laramie is 126% of median. SWE for the Little Laramie River is 230% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 70% of median. The water year-to-date precipitation for the basin is currently 98% of median.

Reservoirs

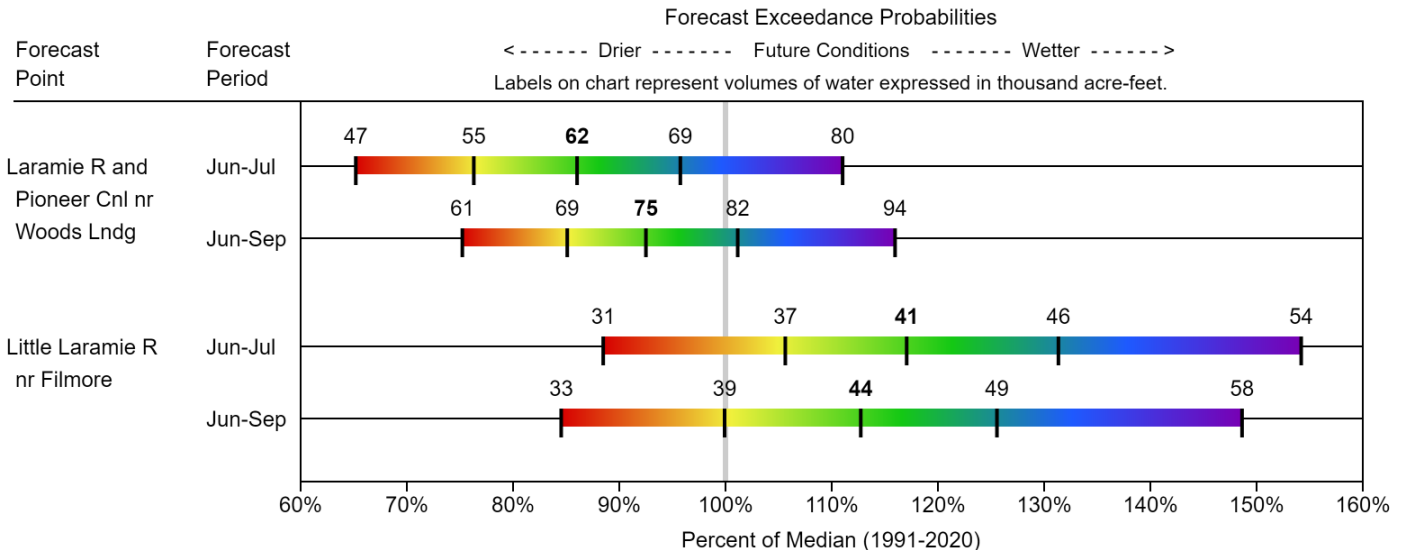
The storage for the reservoir in this basin is at 113% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Wheatland #2	67.8	NA	60.2	98.9	69%	NA	61%	113%	NA
Basin Index					69%	NA	61%	113%	NA
# of reservoirs					1	1	1	1	1

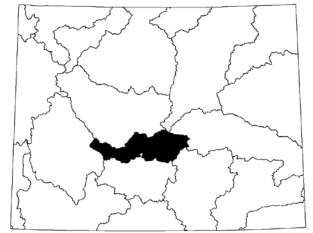
Streamflow

The 50% exceedance forecasts for the June through September period are about normal. Laramie River near Woods Landing is forecasted to yield around 93% of median. The Little Laramie near Filmore should produce about 113% of median. *See the following graph for detailed runoff volumes.*

LARAMIE
Water Supply Forecasts
June 1, 2024

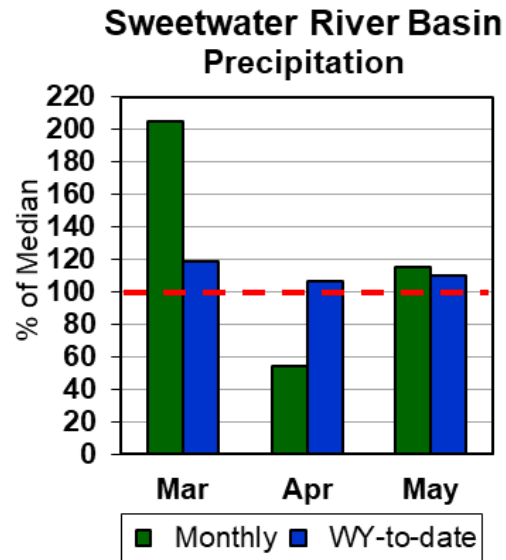
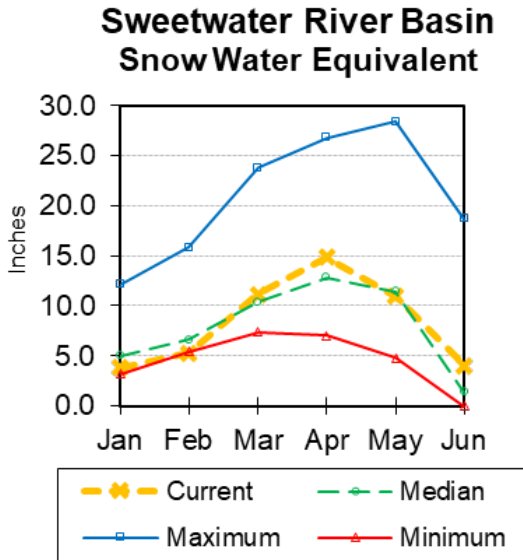


Sweetwater River Basin



Snow

Sweetwater River Basin SWE is at 285% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 115% of median. The water year-to-date precipitation for the basin is currently 110% of median.

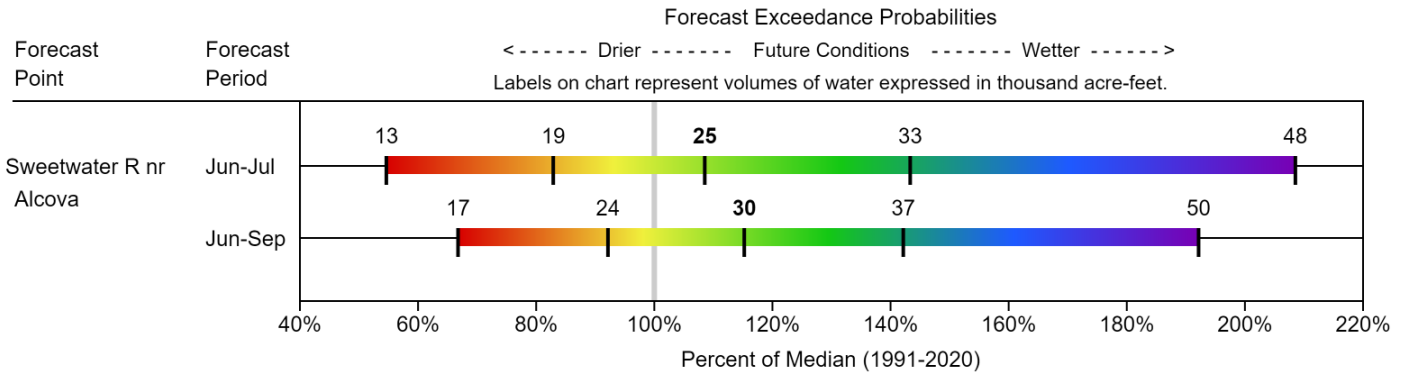
Reservoirs

No reservoir data for the basin.

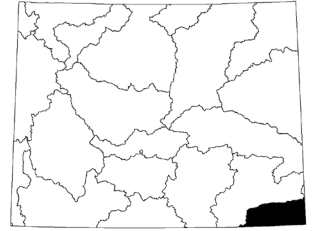
Streamflow

The 50% exceedance forecasts for the June through September period in the Sweetwater Basin is above normal. The Sweetwater River near Alcova will yield about 115% of median. *See below for detailed information on projected runoff.*

SWEETWATER
Water Supply Forecasts
June 1, 2024

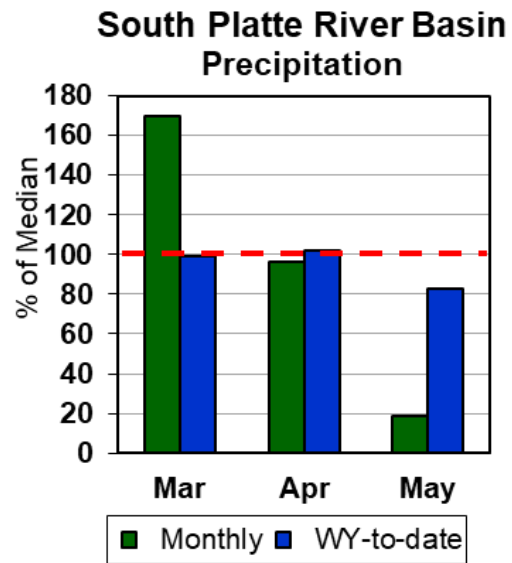
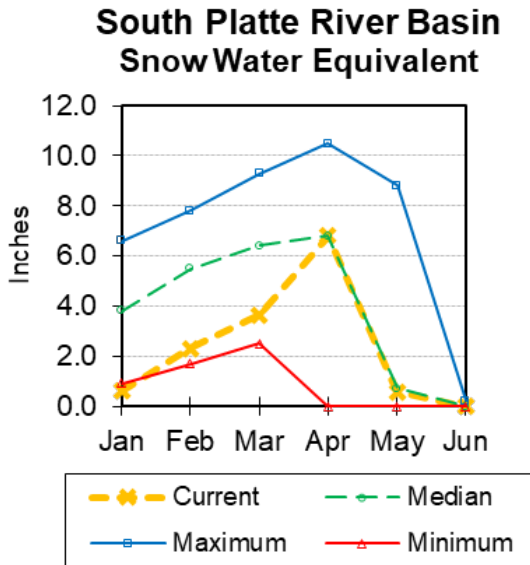


South Platte River Basin (WY)



Snow

The median SWE for sites in the South Platte River Basin is 0. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 19% of median. The water year-to-date precipitation for the basin is currently 83% of median.

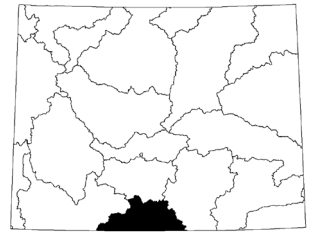
Reservoirs

No reservoir data for the basin.

Streamflow

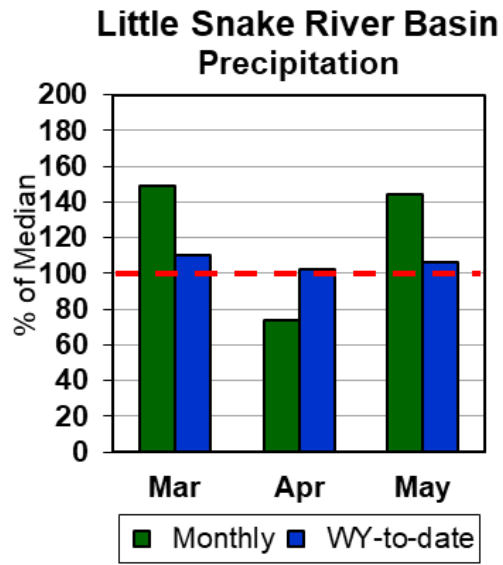
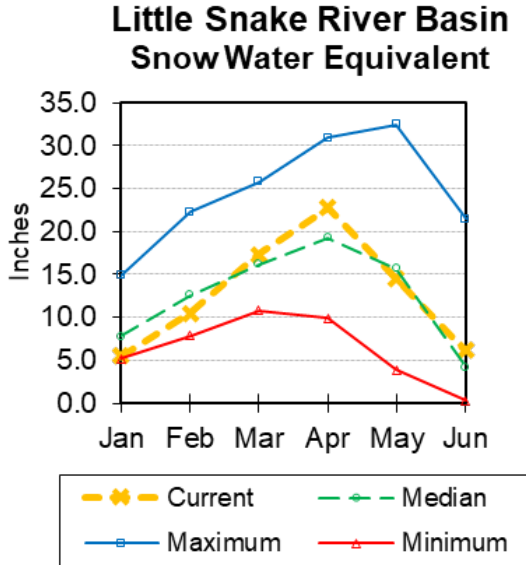
There are no streamflow forecast points for the basin.

Little Snake River Basin



Snow

Little Snake River drainage SWE is 146% of median. See *Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation across the basin was 144% of median. The Little Snake River Basin water-year-to-date precipitation is currently 106% of median.

Reservoirs

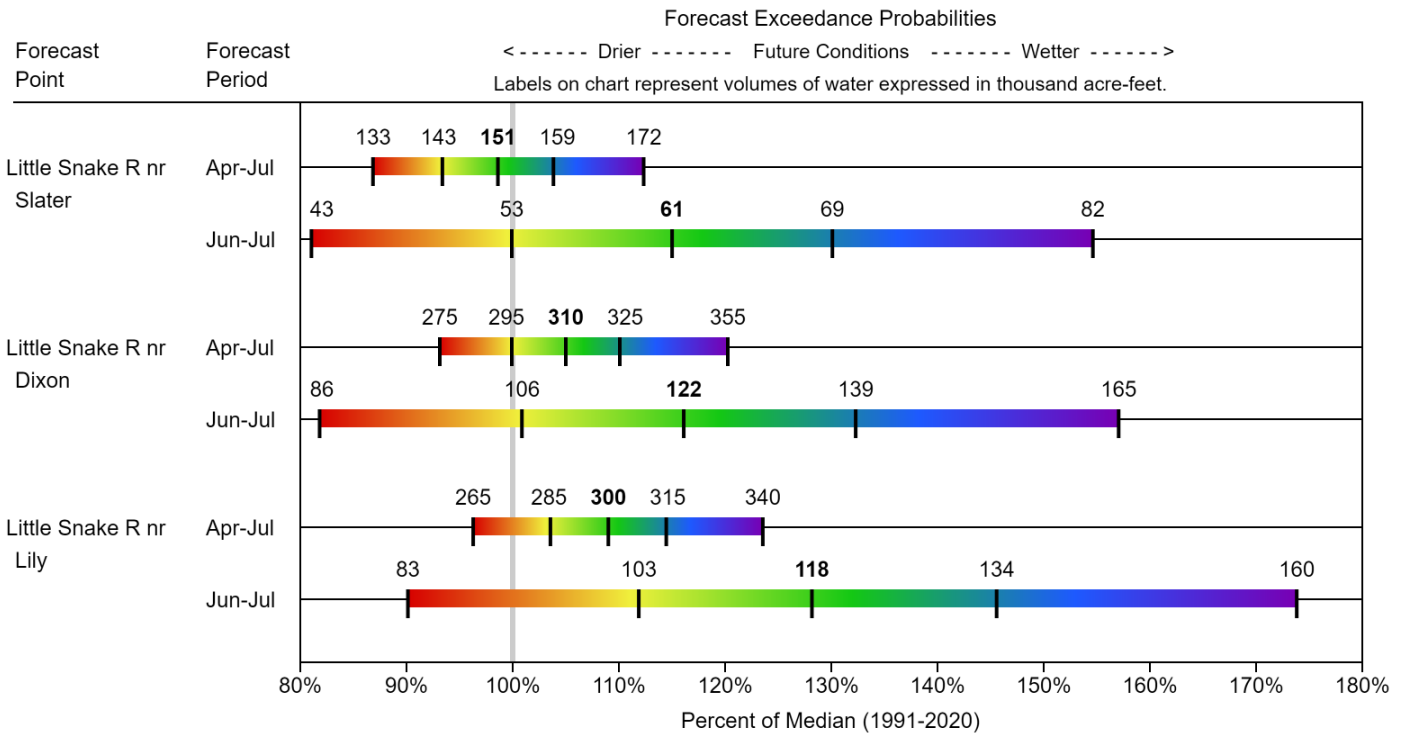
The storage for the reservoir in this basin is at 106% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
High Savery Res	22.5	NA	21.3	22.4	100%	NA	95%	106%	NA
Basin Index					100%	NA	95%	106%	NA
# of reservoirs					1	1	1	1	1

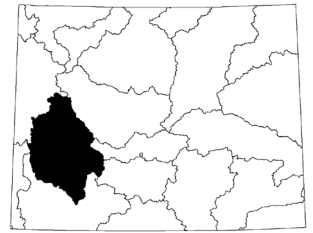
Streamflow

The 50% exceedance forecasts for the June through July period is above normal. The Little Snake River near Slater is forecasted to yield around 115% of median. *See below for detailed information on projected runoff.*

LITTLE SNAKE
Water Supply Forecasts
June 1, 2024

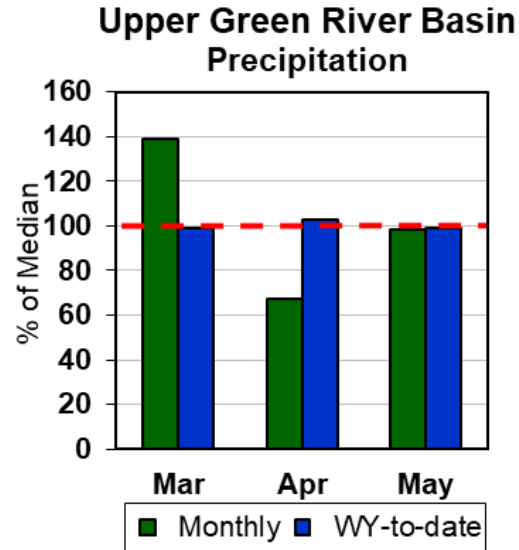
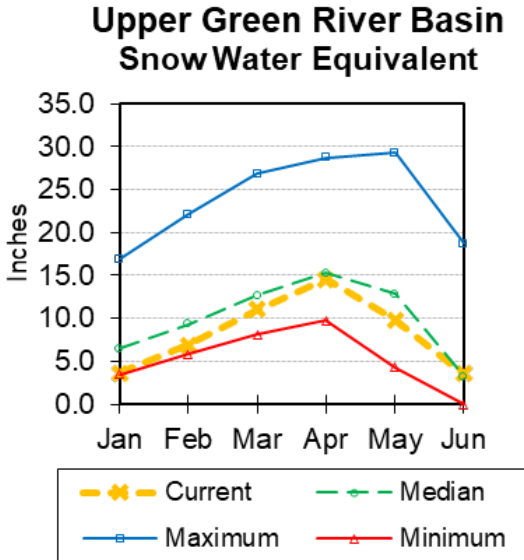


Upper Green River Basin



Snow

The Upper Green River Basin SWE (above Fontenelle Reservoir) is 112% of median. Green River Basin above Warren Bridge SWE is 48% of median. West Side of Upper Green River Basin SWE is 133% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for sites in the basin was 98% of median last month. Water year-to-date precipitation is 99% of median.

Reservoir

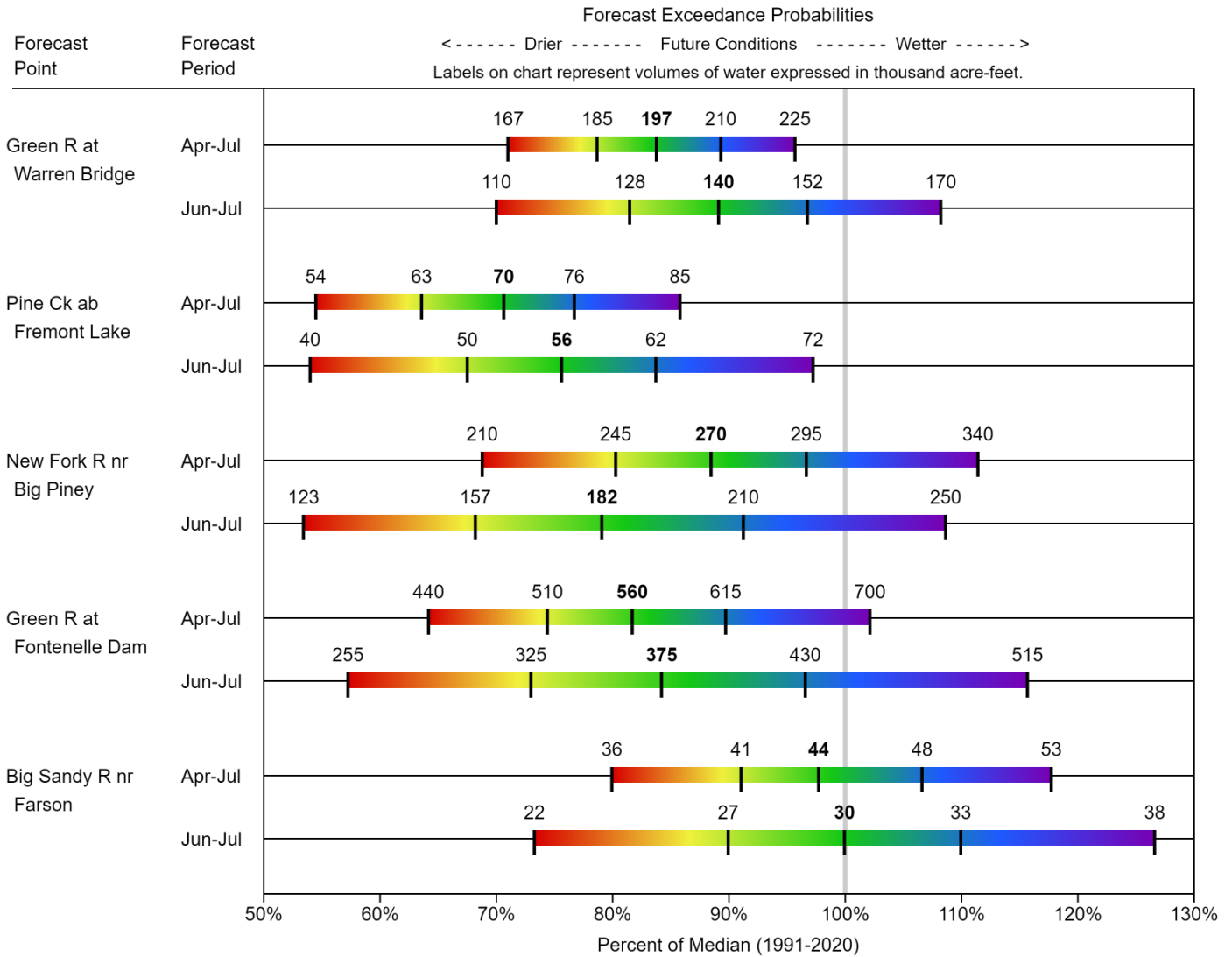
Combined water storage in the basin was at 95% of median for the 2 reservoirs.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Big Sandy	50.4	36.2	30.3	38.3	132%	94%	79%	166%	119%
Fontenelle	156.6	249.9	188.1	344.8	45%	72%	55%	83%	133%
Basin Index					54%	75%	57%	95%	131%
# of reservoirs					2	2	2	2	2

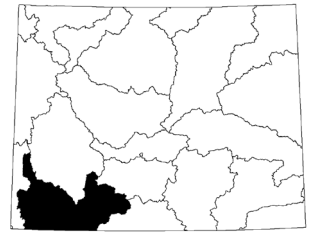
Streamflow

The 50% exceedance forecasts for the June through July period will be below normal. The yield on the Green River at Warren Bridge is about 89% of median. New Fork River near Big Piney yield will be around 79% of median. Green River at Fontenelle Dam is estimated to be about 84% of median. *See the following for a more detailed forecast.*

UPPER GREEN Water Supply Forecasts June 1, 2024



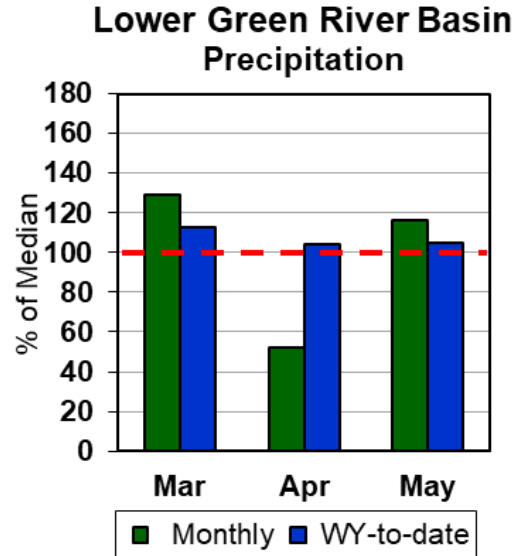
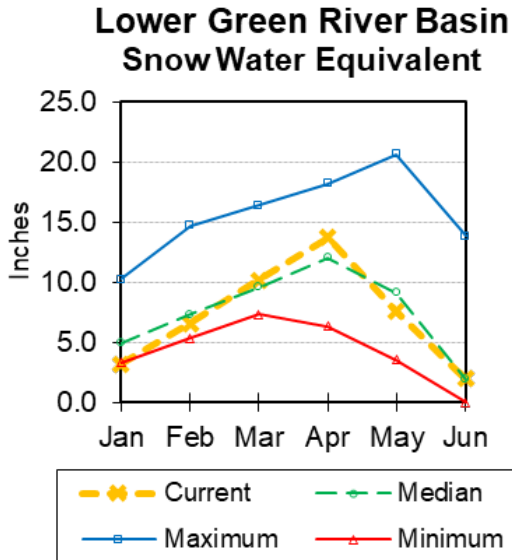
Lower Green River Basin



Snow

Lower Green River Basin SWE is at 104% of median. Hams Fork drainage SWE is 86% of median. Blacks-Smiths Forks drainage SWE is 132% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Precipitation for the basin last month was 116% of median. The basin year-to-date precipitation is currently 105% of median.

Reservoirs

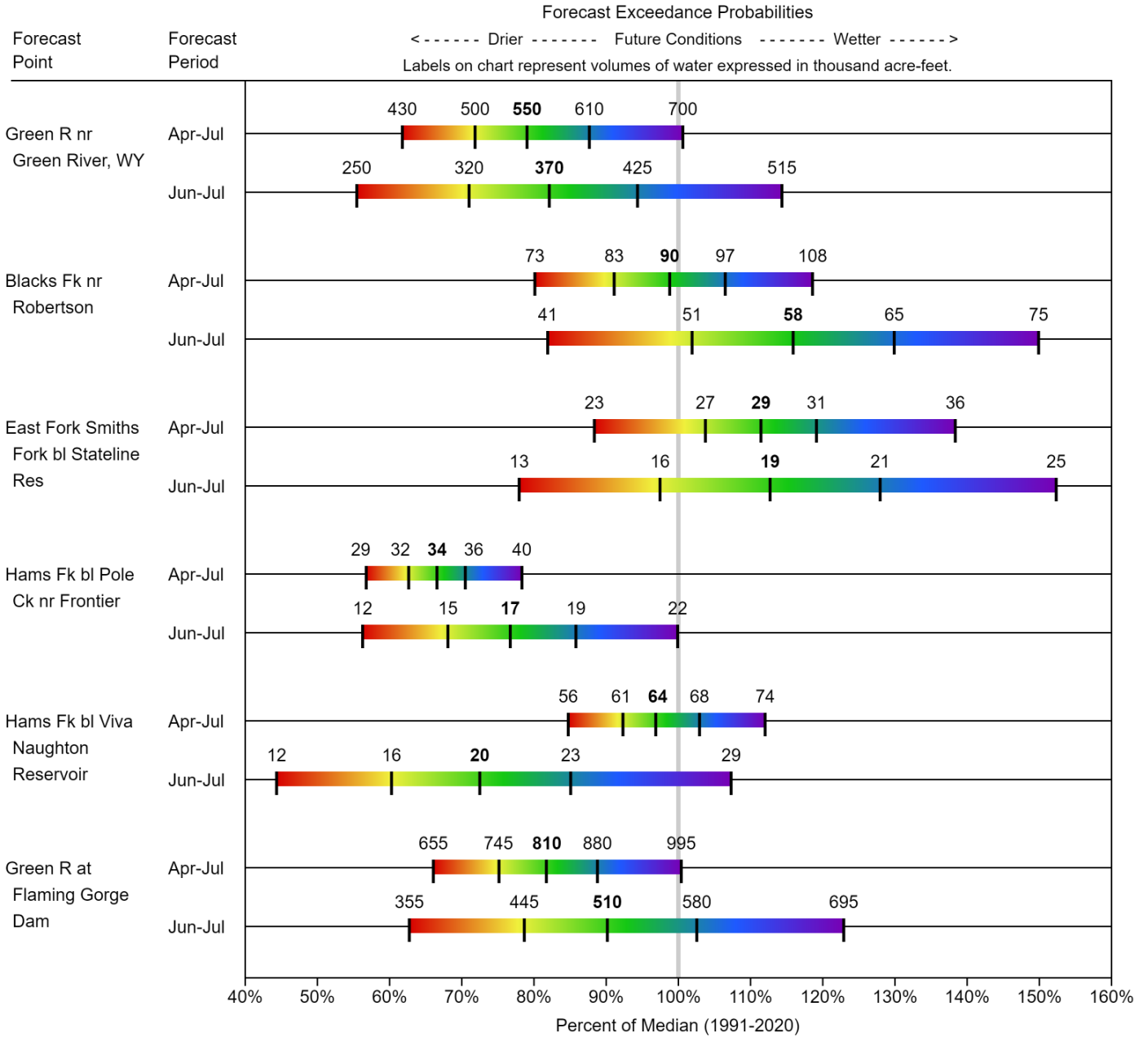
Combined storage for the 4 reservoirs in the basin was at 100% of median at the end of last month.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Viva Naughton Res	40.5	36.1	42.2	42.4	96%	85%	100%	96%	86%
Stateline Reservoir	13.8	14.2	11.1	12.0	115%	118%	93%	124%	128%
Flaming Gorge Res	3136.4	2917.4	3144.0	3749.0	84%	78%	84%	100%	93%
Meeks Cabin Res	26.6	29.9	27.0	32.5	82%	92%	83%	99%	111%
Basin Index					84%	78%	84%	100%	93%
# of reservoirs					4	4	4	4	4

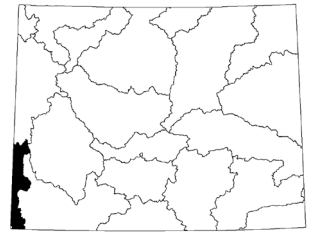
Streamflow

The following are the 50% exceedance forecasts for the June through July period is below normal. The Green River near Green River will yield about 82% of median. The Flaming Gorge Reservoir inflow will be about 90% of median. *See the following page for more detailed information on projected runoff.*

LOWER GREEN
Water Supply Forecasts
June 1, 2024



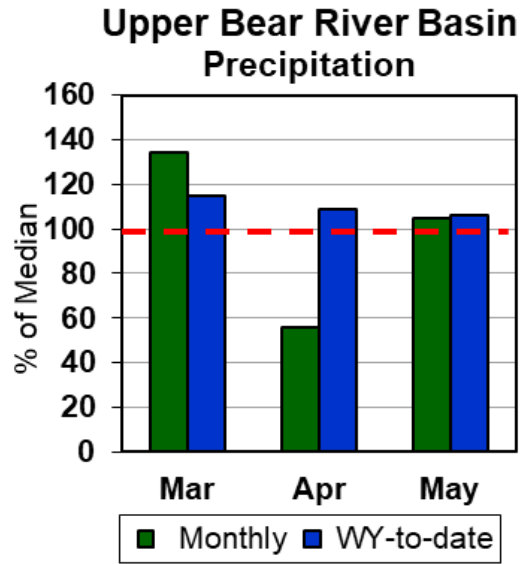
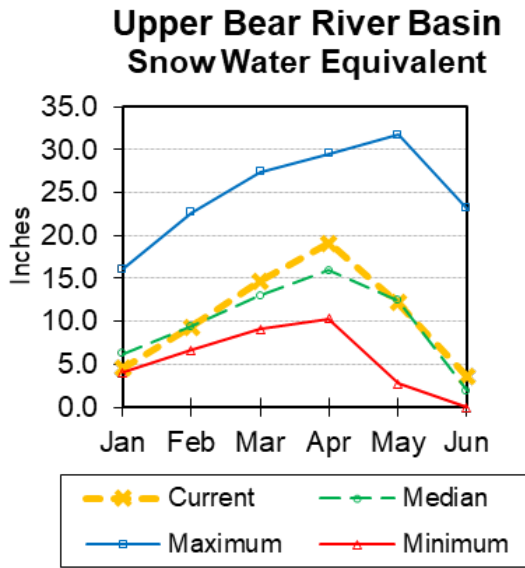
Upper Bear River Basin



Snow

SWE in the Upper Bear River Basin of Utah is 191% of median. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is 113% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Precipitation for last month was 105% of median in the basin. The year-to-date precipitation for the basin is 106% of median.

Reservoirs

Combined reservoir storage in this basin is at 98% of median.

	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Woodruff Creek	4.0	4.0	4.0	4.0	100%	101%	100%	100%	101%
Woodruff Narrows Res	62.4	63.4	49.8	57.3	109%	111%	87%	125%	127%
Basin Index					108%	110%	88%	98%	125%
# of reservoirs					2	2	2	2	2

Streamflow

There are no streamflow forecast points for the basin.

Appendix

MEDIAN INFORMATION

Transitioning from 1981 – 2010 **Averages** to 1991 – 2020 **Medians**

Starting January 2022, the NRCS will use the 30-year **median** as the official normal for snowpack (SWE), precipitation, reservoir storage, and streamflow calculations. The National Water and Climate Center (NWCC) will continue to publish and distribute 30-year averages for alternate normal calculations.

The 30-yr reference period for median and normal calculations has also been recently updated from 1981-2010 to 1991-2020.

Please refer to this NWCC website or more information about the significant changes in data and forecast computations:

<https://www.nrcs.usda.gov/wps/portal/wcc/home/snowClimateMonitoring/30YearNormals/>

Topics include:

- **1991 – 2020 Median/Averages Overview**
- **Calculation Methods**
- **Differences Between 1991-2020 and Previous Normals**
- **Median vs. Average**
- **Retrieving 1991-2020 Normals**

For specific seasonal streamflow normal comparisons for NRCS forecasted stations, please refer to:

https://www.wcc.nrcs.usda.gov/ftpref/support/srvo_norms_comps/

LINKS (for more information/graphics)

National Water Climate Center (NWCC)

- Interactive maps featuring current conditions of snow, precipitation, reservoir storages:

<https://www.nrcs.usda.gov/wps/portal/wcc/home/quicklinks/predefinedMaps/>

Water Resources Data System and State Climate Office (WRDS)

- Clearinghouse of hydrological and climatological data for the State of Wyoming:

<http://www.wrds.uwyo.edu/>

USGS WaterWatch

- Tools and products to monitor streamflow, runoff, drought, and floods:

<https://waterwatch.usgs.gov/index.php>

Appendix - Snowpack Data

In Word double click the object below to view entire document

Appendix - Precipitation Data

In Word double click the object below to view entire document

Appendix - Streamflow Data

In Word double click the object below to view entire document

Wyoming Basin Outlook Report

Natural Resources Conservation Service

Casper, Wyoming

Issued by:

Terry Cosby (Chief)
U.S.D.A.
Natural Resources Conservation Service
Washington D.C.

Released by:

Jackie Byam
State Conservationist
N R C S
Casper, Wyoming

The Following Agencies and Organizations Cooperate with the Natural Resources Conservation Service with Snow Surveys and/or with Data:

FEDERAL:

United States Department of the Interior (National Park Service)

United States Department of the Interior (Bureau of Reclamation)

United States Department of Agriculture (Forest Service)

United States Department of Commerce NOAA (National Weather Service)

STATE:

The Wyoming State Engineer's Office

The University of Wyoming

LOCAL:

The City of Cheyenne